



MCS Product Certificate

Date Issued	24th February 2026	Annual review date	21st January
Issue number	12	Original/Amendment	Amendment
Certificate number	KIWA00041	Page	1 of 35

MCS Product Certification Certificate Issued by Kiwa Ltd

MCS Product Certification Scheme Standards – MCS010, MCS011, MCS012 Issue 3.0
Model designations – see Appendix

Producer:

Business Address:
GSE Integration
 5 rue Morand
 Batiment Energy 5
 Centre d'affaire Morand
 93400 Saint Ouen
 France

Factory/Warehouse Address:
GSE Integration
 3 Rue des Patis
 Le Petit Quevilly
 76140
 France

Manufacturer:

As Above

Kiwa Ltd declares that the products detailed in the Appendix have been assessed by Kiwa and meet the requirements of the above MCS Product Certification Standards.

Signed on behalf of Kiwa Ltd

Mark Crowther
 MCS Certification Director
 Kiwa Ltd

This certificate is subject to the producer continuing to comply with the Kiwa MCS Product Scheme Rules and ongoing Annual Surveillance

CERTIFICATE

390170301

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MCS Product Certificate



Appendix to Certificate KIWA00041

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The following products have been assessed and registered by Kiwa Ltd against the provisions of: MCS 010, MCS 011, MCS 012 Issue 3.0

Product Name	Model Name		MCS Certificate Number			
GSE IN-ROOF System	Portrait Version 2012		KIWA00041/006 IK			
Type	Roof Integrated: System					
Component (if an individual component)	Components for this system are listed in ANNEX II					
System/Component Description	Polymer in roof mounting frames to support the PV modules with pressed steel clamps which retain the panels and provide the roof attachment.					
Compatible Roof Coverings	<ul style="list-style-type: none"> • Discontinuous <ul style="list-style-type: none"> o Profile concrete/clay tile o Plain concrete/clay tile o Slate (natural or synthetic) 					
Tests Undertaken	Resistance to wind uplift		Yes / No			
	Fire performance		Yes / No			
	Weather tightness		Yes / No			
Compatible substructures	Timber					
Test Preparation	Two pv modules on polymer in roof mounting frames on 25 mm X 50 mm wooden battens, each attached and clamped with two individual side clamps and two individual middle clamps					
Maximum Design Wind Uplift Resistance	2.02 kPa	Partial (safety) factor(s)	1.44			
Failure Mode	Ultimate Limit State • Failure in a timber component or pull out from a timber component					
For certified wind uplift resistance in sound timber	width 50 mm X depth 25 mm					
Test Preparation	Two pv modules on polymer in roof mounting frames on 25 mm X 50 mm wooden battens, each attached and clamped with two pairs of side clamps and two pairs of middle clamps.					
Maximum Design Wind Uplift Resistance	3.35 kPa	Partial (safety) factor(s)	1.1			
Failure Mode	Ultimate Limit State • Failure in a metal component					
For certified wind uplift resistance in sound timber	width 50 mm X depth 25 mm					
Roof Covering	Type:	Double Roman tiles	Pitch:	15°	Head-lap	60 mm (Single)
	Maximum unprotected gap in reference roof covering (+/- 1mm)					Not determined
	Maximum unprotected gap with mounting system/component (+/- 1mm)					Not determined
	Minimum Permissible roof Pitch (°)					15°
Applied suction (kilopascal (kPa)) at leakage rate 10g/m2/5min	Not determined		Leakage observed after 2 min		0 g	
Fire Classification	$B_{ROOF}(t4)$					
Applicable solar Panels	for this system are listed in ANNEX I					

Signed on behalf of Kiwa Ltd

Mark Crowther - MCS Certification Director - Kiwa Ltd

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The following products have been assessed and registered by Kiwa Ltd against the provisions of: MCS 010, MCS 011, MCS 012 Issue 3.0

Product Name	Model Name		MCS Certificate Number			
GSE IN-ROOF System	Portrait Version 2020		KIWA00041/008 IK			
Type	Roof Integrated: System					
Component (if an individual component)	Components for this system are listed in ANNEX II					
System/Component Description	Polymer in roof mounting frames to support the PV modules with pressed steel clamps which retain the panels and provide the roof attachment.					
Compatible Roof Coverings	<ul style="list-style-type: none"> • Discontinuous <ul style="list-style-type: none"> o Profile concrete/clay tile o Plain concrete/clay tile o Slate (natural or synthetic) 					
Tests Undertaken	Resistance to wind uplift		Yes / No			
	Fire performance		Yes / No			
	Weather tightness		Yes / No			
Compatible substructures	Timber					
Test Preparation	Two pv modules on polymer in roof mounting frames on 25 mm X 50 mm wooden battens, each attached and clamped with two individual side clamps and two individual middle clamps.					
Maximum Design Wind Uplift Resistance	2.02 kPa	Partial (safety) factor(s)				1.44
Failure Mode	Ultimate Limit State • Failure in a timber component or pull out from a timber component					
For certified wind uplift resistance in sound timber	Tested with 25 mm X 50 mm wooden battens					
Test Preparation	Two pv modules on polymer in roof mounting frames on 25 mm X 50 mm wooden battens, each attached and clamped with two pairs of side clamps and two pairs of middle clamps.					
Maximum Design Wind Uplift Resistance	3.35 kPa	Partial (safety) factor(s)				1.1
Failure Mode	Ultimate Limit State • Failure in a metal component					
For certified wind uplift resistance in sound timber	width 50 mm X depth 25 mm					
Roof Covering	Type:	Double Roman tiles	Pitch:	15°	Head-lap	60 mm (Single)
	Maximum unprotected gap in reference roof covering (+/- 1mm)					Not determined
	Maximum unprotected gap with mounting system/component (+/- 1mm)					Not determined
	Minimum Permissible roof Pitch (°)					15°
Applied suction (kilopascal (kPa)) at leakage rate 10g/m ² /5min	Not determined		Leakage observed after 2 min		0 g	
Fire Classification	B _{ROOF} (t4)					
Applicable solar panels	for this system are listed in ANNEX I					

Signed on behalf of Kiwa Ltd
Mark Crowther - MCS Certification Director - Kiwa Ltd

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The following products have been assessed and registered by Kiwa Ltd against the provisions of: MCS 010, MCS 011, MCS 012

Product Name	Model Name		MCS Certificate Number			
GSE IN-ROOF System	Half Portrait Version 2022		KIWA00041/010 IK			
Type	Roof Integrated: System					
Component (if an individual component)	Balance of system in Annex II					
System/Component Description	Polymer in roof mounting frames to support the PV modules with pressed steel clamps which retain the panels and provide the roof attachment					
Compatible Roof Coverings	<ul style="list-style-type: none"> • Discontinuous <ul style="list-style-type: none"> o Profile concrete/clay tile o Plain concrete/clay tile o Slate (natural or synthetic) 					
Tests Undertaken	Resistance to wind uplift		Yes / No			
	Fire performance		Yes / No			
	Weather tightness		Yes / No			
Compatible substructures	Timber					
Test Preparation	Two pv modules on polymer in roof mounting frames on 25 mm X 50 mm wooden battens, each attached and clamped with two individual side clamps and two individual middle clamps					
Maximum Design Wind Uplift Resistance	2.02 kPa	Partial (safety) factor(s)	1.44			
Failure Mode	Ultimate Limit State • Failure in a timber component or pull out from a timber component					
For certified wind uplift resistance in sound timber	width 50 mm X depth 25 mm					
Test Preparation	Two pv modules on polymer in roof mounting frames on 25 mm X 50 mm wooden battens, each attached and clamped with two pairs of side clamps and two pairs of middle clamps.					
Maximum Design Wind Uplift Resistance	3.35 kPa	Partial (safety) factor(s)	1.1			
Failure Mode	Ultimate Limit State • Failure in a metal component					
For certified wind uplift resistance in sound timber	width 50 mm X depth 25 mm					
Roof Covering	Type:	Double Roman tiles	Pitch:	15°	Head-lap	60 mm (Single)
	Maximum unprotected gap in reference roof covering (+/- 1mm)					Not determined
	Maximum unprotected gap with mounting system/component (+/- 1mm)					Not determined
Minimum Permissible roof Pitch (°)					15°	
Applied suction (kilopascal (kPa)) at leakage rate 10g/m ² /5min	Not determined		Leakage observed after 2 min	0		
Fire Classification	B _{ROOF} (t4)					
Applicable solar panels	for this system are listed in ANNEX I					

Signed on behalf of Kiwa Ltd
Mark Crowther - MCS Certification Director - Kiwa Ltd

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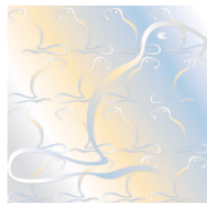
The following products have been assessed and registered by Kiwa Ltd against the provisions of: MCS 010, MCS 011, MCS 012

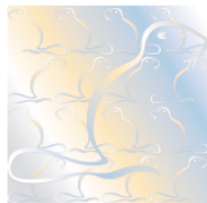
Product Name	Model Name		MCS Certificate Number			
GSE IN-ROOF System	Landscape Evolution (half landscape)		KIWA00041/011 IK			
Type	Roof Integrated: System					
Component (if an individual component)	Balance of system in Annex II					
System/Component Description	Polymer in roof mounting frames to support the PV modules with pressed steel clamps which retain the panels and provide the roof attachment					
Compatible Roof Coverings	<ul style="list-style-type: none"> • Discontinuous <ul style="list-style-type: none"> o Profile concrete/clay tile o Plain concrete/clay tile o Slate (natural or synthetic) 					
Tests Undertaken	Resistance to wind uplift		Yes / No			
	Fire performance		Yes / No			
	Weather tightness		Yes / No			
Compatible substructures	Timber					
Test Preparation	Two pv modules on polymer in roof mounting frames on 25 mm X 50 mm wooden battens, each attached and clamped with two individual side clamps and two individual middle clamps					
Maximum Design Wind Uplift Resistance (give in kPa for full system to kN for components)	2.25 kPa	Partial (safety) factor(s)		1.44		
Failure Mode	Ultimate Limit State • Failure in a timber component or pull out from a timber component					
For certified wind uplift resistance in sound timber	width 49 mm X depth 24 mm					
Roof Covering	Type:	Double Roman tiles	Pitch:	15°	Head-lap	150 mm (single)
	Maximum unprotected gap in reference roof covering (+/- 1mm)					Not determined
	Maximum unprotected gap with mounting system/component (+/- 1mm)					Not determined
	Minimum Permissible roof Pitch (°)					15°
Applied suction (kilopascal (kPa)) at leakage rate 10g/m2/5min	Not determined		Leakage observed after 2 min		0	
Fire Classification	B _{ROOF(t4)}					
Applicable solar panels	for this system are listed in ANNEX I					

Signed on behalf of Kiwa Ltd
Mark Crowther - MCS Certification Director - Kiwa Ltd

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MCS Product Certificate

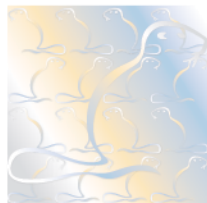


Annex I to Certificate KIWA00041

The following PV modules have been identified as providing a BROOF(t4) fire classification when installed with the products covered by this certificate:

PV module manufacturer	PV module model names	MCS Certificate Number
Hanwha Q CELLS GmbH	Q.PEAK DUO BLK-G9 330 Q.PEAK DUO BLK-G9 335 Q.PEAK DUO BLK-G9 340 Q.PEAK DUO BLK-G9 345 Q.PEAK DUO BLK-G9+ 330 Q.PEAK DUO BLK-G9+ 335 Q.PEAK DUO BLK-G9+ 340 Q.PEAK DUO BLK-G9+ 345 Q.PEAK DUO ML-G9 380 Q.PEAK DUO ML-G9 385 Q.PEAK DUO ML-G9 390 Q.PEAK DUO ML-G9 395 Q.PEAK DUO ML-G9+ 380 Q.PEAK DUO ML-G9+ 385 Q.PEAK DUO ML-G9+ 390 Q.PEAK DUO ML-G9+ 395 Q.PEAK DUO BLK ML-G9 365 Q.PEAK DUO BLK ML-G9 370 Q.PEAK DUO BLK ML-G9 375 Q.PEAK DUO BLK ML-G9 380 Q.PEAK DUO BLK ML-G9 385 Q.PEAK DUO BLK ML-G9+ 365 Q.PEAK DUO BLK ML-G9+ 370 Q.PEAK DUO BLK ML-G9+ 375 Q.PEAK DUO BLK ML-G9+ 380 Q.PEAK DUO BLK ML-G9+ 385	MCS PV0062/512 MCS PV0062/513 MCS PV0062/514 MCS PV0062/515 MCS PV0062/516 MCS PV0062/517 MCS PV0062/518 MCS PV0062/519 MCS PV0062/520 MCS PV0062/521 MCS PV0062/522 MCS PV0062/523 MCS PV0062/524 MCS PV0062/525 MCS PV0062/526 MCS PV0062/527 MCS PV0062/528 MCS PV0062/529 MCS PV0062/530 MCS PV0062/531 MCS PV0062/532 MCS PV0062/533 MCS PV0062/534 MCS PV0062/535 MCS PV0062/536 MCS PV0062/537
Hanwha Q CELLS GmbH	Q.PEAK DUO XL-G9 455 - Q.PEAK DUO XL-G9 460 Q.PEAK DUO XL-G9.2 455 - Q.PEAK DUO XL-G9.2 460 Q.PEAK DUO XL-G9.3 455 - Q.PEAK DUO XL-G9.3 460	MCS PV0062/538 - MCS PV0062/539 MCS PV0062/540 -MCS PV0062/541 MCS PV0062/542 - MCS PV0062/543
Hanwha Q CELLS GmbH	Q.PEAK DUO-G6 340 Q.PEAK DUO-G6 345 Q.PEAK DUO-G6 350 Q.PEAK DUO-G6 355 Q.PEAK DUO-G8 345 Q.PEAK DUO-G8 350 Q.PEAK DUO-G8 355	MCS PV0062/463 MCS PV0062/464 MCS PV0062/465 MCS PV0062/466 MCS PV0062/480 MCS PV0062/481 MCS PV0062/482
LONGi Green Energy Technology Co., Ltd.	LR4-60HPB-xxxM LR4-60HPH-350M LR4-60HPH-355M LR4-60HPH-360M LR4-60HPH-365M LR4-60HPH-370M LR4-60HPH-375M	BABT 8771-02/01 BABT 8771-06/01-350W BABT 8771-06/01-355W BABT 8771-06/01-360W BABT 8771-06/01-365W BABT 8771-06/01-370W BABT 8771-06/01-375W
LONGi Green Energy Technology Co., Ltd.	LR6-60HPB-xxxM, (xxx=300-320, in 5W steps) LR6-60HPH-xxxM, (xxx=300-325, in 5W steps) LR6-60PB-xxxM	BABT 8771-01/00 BABT 8771-04/00 BABT 8771-11/00
Perlight Solar Co., Ltd.	PLM-xxxM-60 pcs 6" (where xxx = 220W - 300W in increments of 5W) PLM-xxxMB-60 pcs 6" (where xxx = 220W - 300W in increments of 5W) PLM-xxxM-60 pcs 6" (where xxx = 220W - 320W in increments of 5W) PLM-xxxMB-60 pcs 6" (where xxx = 220W - 320W in increments of 5W) PLM-xxxP-60 pcs 6" (where xxx = 190W - 295W in increments of 5W) PLM-xxxPB-60 pcs 6" (where xxx = 270W - 295W in increments of 5W) PLM-xxxPB-60 pcs 6" (where xxx = 195W - 295W in increments of 5W)	BBA 0005/1066 to BBA 0005/1082 BBA 0005/1189 to BBA 0005/1205 BBA 0005/2259 to BBA 0005/2262 BBA 0005/2263 to BBA 0005/2266 BBA 0005/1751 to BBA 0005/1772 BBA 0005/1888 to BBA 0005/1893 BBA 0005/2244 to BBA 0005/2258

CERTIFICATE



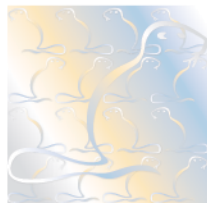
MCS Product Certificate



Annex I to Certificate KIWA00041

<p>Shanghai JA Solar Tech Co Ltd.</p>	<p>JAM60S10-xxx/PR (xxx=315 to 345 in 5W steps) JAM60S10-xxx/MR (xxx=320 to 340 in 5W steps) JAM60S10-xxx/MR (where xxx=325-345 in 5W steps) JAM60S10-325/MR JAM60S10-330/MR JAM60S10-335/MR JAM60S10-340/MR JAM60S10-345/MR JAM60S10-xxx/PR JAM60S10-315/PR JAM60S10-320/PR JAM60S10-325/PR JAM60S10-330/PR JAM60S10-335/PR JAM60S10-340/PR JAM60S10-345/PR JAM60S10-330/MB JAM60S10-335/MB JAM60S10-340/MB JAM60S10-345/MB JAM60S10-320/BP JAM60S10-325/BP JAM60S10-330/BP</p>	<p>BABT 8515-152 BABT 8515-165 BABT 8515-165-R1 BABT 8515-165-R1-325W BABT 8515-165-R1-330W BABT 8515-165-R1-335W BABT 8515-165-R1-340W BABT 8515-165-R1-345W BABT 8515-200 BABT 8515-200-315W BABT 8515-200-320W BABT 8515-200-325W BABT 8515-200-330W BABT 8515-200-335W BABT 8515-200-340W BABT 8515-200-345W BABT 8515-202-330W BABT 8515-202-335W BABT 8515-202-340W BABT 8515-202-345W BABT 8515-204-320W BABT 8515-204-325W BABT 8515-204-330W</p>
<p>Shanghai JA Solar Tech Co Ltd.</p>	<p>JAM60S17-xxx/PR (xxx=315 to 345 in 5W steps) JAM60S17-xxx/PR (where xxx=315-325 in 5W steps) JAM60S17-315/PR JAM60S17-320/PR JAM60S17-325/PR JAM60S17-xxx/MR (xxx=320 to 340 in 5W steps) JAM60S17-xxx/MR (where xxx=315-325 in 5W steps) JAM60S17-315/MR JAM60S17-320/MR JAM60S17-325/MR JAM60S17-330/MR JAM60S17-335/MR</p>	<p>BABT 8515-163 BABT 8515-163-R1 BABT 8515-163-R1-315W BABT 8515-163-R1-320W BABT 8515-163-R1-325W BABT 8515-164 BABT 8515-164-R1 BABT 8515-164-R1-315W BABT 8515-164-R1-320W BABT 8515-164-R1-325W BABT 8515-210-330W BABT 8515-210-335W</p>
<p>Shanghai JA Solar Tech Co Ltd.</p>	<p>JAM60S20-355/MR JAM60S20-360/MR JAM60S20-365/MR JAM60S20-370/MR JAM60S20-375/MR JAM60S20-380/MR JAM60S20-385/MR JAM60S20-390/MR</p>	<p>BABT 8515-208-R27-355W BABT 8515-208-R27-360W BABT 8515-208-R27-365W BABT 8515-208-R27-370W BABT 8515-208-R27-375W BABT 8515-208-R27-380W BABT 8515-208-R27-385W BABT 8515-208-R27-390W</p>
<p>Shanghai JA Solar Tech Co Ltd.</p>	<p>JAM60S21-355/MR JAM60S21-360/MR JAM60S21-365/MR JAM60S21-370/MR JAM60S21-375/MR</p>	<p>BABT 8515-224-355W BABT 8515-224-360W BABT 8515-224-365W BABT 8515-224-370W BABT 8515-224-375W</p>
<p>Sharp Electronics GmbH</p>	<p>NU-JC320B NU-JC330</p>	<p>BABT8775-001 BABT8775-002</p>
<p>Sunpower Corp.</p>	<p>SPR-MAX2-340 1690x1046x40 SPR-MAX2-350 1690x1046x40 SPR-MAX2-360 1690x1046x40 SPR-MAX3-400 1690x1046x40 SPR-MAX3-395 1690x1046x40 SPR-MAX3-370 1690x1046x40 SPR-MAX3-390 1690x1046x40</p>	<p>MCS PV0102/92 & MCS PV0280/46 MCS PV0102/93 & MCS PV0280/47 MCS PV0102/94 & MCS PV0280/48 MCS PV0102/100 & MCS PV0280/54 MCS PV0102/105 & MCS PV0280/59 MCS PV0102/98 & MCS PV0280/52 MCS PV0102/99 & MCS PV0280/53</p>

CERTIFICATE



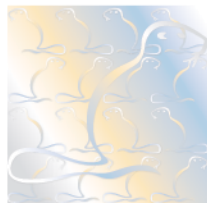
MCS Product Certificate



Annex I to Certificate KIWA00041

PV module manufacturer	PV module model names	MCS Certificate Number
Trina Solar Co., Ltd.	TSM-325DE06M(II) 1698x1004x35 TSM-330DE06M(II) 1698x1004x35 TSM-335DE06M(II) 1698x1004x35 TSM-325DE06M.08(II) 1698x1004x35 TSM-330DE06M.08(II) 1698x1004x35 TSM-335DE06M.08(II) 1698x1004x35 TSM-315DD06M.05(II) 1698x1004x35 TSM-320DD06M.05(II) 1698x1004x35 TSM-325DD06M.05(II) 1698x1004x35 TSM-330DD06M.05(II) 1698x1004x35 TSM-335DD06M.05(II) 1698x1004x35 TSM-340DE06M(II) 1698x1004x35 TSM-335DE06M(II) 1690x996x35 TSM-340DE06M(II) 1690x996x35 TSM-340DE06M.08(II) 1698x1004x35 TSM-330DE06M.08(II) 1690x996x35 TSM-335DE06M.08(II) 1690x996x35 TSM-340DE06M.08(II) 1690x996x35 TSM-320DD06M.05(II) 1690x996x35 TSM-325DD06M.05(II) 1690x996x35 TSM-330DD06M.05(II) 1690x996x35 TSM-345DE06M.08(II) 1690x996x35 TSM-345DE06M.08(II) 1698x1004x35 TSM-335DD06M.05(II) 1690x996x35 TSM-340DD06M.05(II) 1690x996x35 TSM-335DD06M.05(II) 1698x1004x35 TSM-340DD06M.05(II) 1698x1004x35	MCS PV0183/1697 MCS PV0183/1698 MCS PV0183/1699 MCS PV0183/1700 MCS PV0183/1701 MCS PV0183/1702 MCS PV0183/1703 MCS PV0183/1704 MCS PV0183/1705 MCS PV0183/1706 MCS PV0183/1707 MCS PV0183/1747 MCS PV0183/1748 MCS PV0183/1749 MCS PV0183/1750 MCS PV0183/1751 MCS PV0183/1752 MCS PV0183/1753 MCS PV0183/1754 MCS PV0183/1755 MCS PV0183/1756 MCS PV0183/1791 MCS PV0183/1792 MCS PV0183/1793 MCS PV0183/1794 MCS PV0183/1795 MCS PV0183/1796
Trina Solar Co., Ltd.	TSM-355DE08M(II) 1763x1040x35 - TSM-370DE08M(II) 1763x1040x35 TSM-355DE08M.08(II) 1763x1040x35 - TSM-375DE08M.08(II) 1763x1040x35 TSM-375DE08M(II) 1763x1040x35 - TSM-380DE08M(II) 1763x1040x35 TSM-380DE08M.08(II) 1763x1040x35 TSM-355DE08M.08(II) 1763x1040x40 - TSM-370DE08M.08(II) 1763x1040x40 TSM-375DE08M(II) 1763x1040x40 - TSM-380DE08M(II) 1763x1040x40 TSM-375DE08M.08(II) 1763x1040x40 - TSM-380DE08M.08(II) 1763x1040x40	MCS PV0183/1761 to MCS PV0183/1764 MCS PV0183/1769 to MCS PV0183/1773 MCS PV0183/1774 to MCS PV0183/1775 MCS PV0183/1776 MCS PV0183/1765 to MCS PV0183/1768 MCS PV0183/1777 to MCS PV0183/1778 MCS PV0183/1779 to MCS PV0183/1780
Trina Solar Co Ltd	Trina Solar Vertex TSM-xxxDE09.0y (x=Power; y={8 ; 5})	MCS PV0183/1805 to MCS PV0183/1810 MCS PV0183/1811 to MCS PV0183/1816 MCS PV0183/1817 to MCS PV0183/1822 MCS PV0183/1823 to MCS PV0183/1828 MCS PV0183/1829 to MCS PV0183/1834 MCS PV0183/1835 to MCS PV0183/1840
Shanghai JA Solar Tech Co Ltd	JA Solar JAM54S30-xxx/MR/yyyy (xxx = Power ; yyyy = Voltage)	BAPT 8515-229-390W BAPT 8515-229-395W BAPT 8515-229-400W BAPT 8515-229-405W BAPT 8515-229-410W BAPT 8515-229-415W BAPT 8515-230-390W BAPT 8515-230-395W BAPT 8515-230-400W BAPT 8515-230-405W BAPT 8515-230-410W BAPT 8515-230-415W BAPT 8515-231-390W BAPT 8515-231-395W BAPT 8515-231-400W BAPT 8515-231-405W BAPT 8515-231-410W BAPT 8515-231-415W
Shanghai JA Solar Tech Co Ltd	JA Solar JAM54S31-xxx/MR/yyyy (xxx = Power ; yyyy = Voltage)	BAPT 8515-232-385W BAPT 8515-232-390W BAPT 8515-232-395W BAPT 8515-232-400W BAPT 8515-232-405W BAPT 8515-233-385W BAPT 8515-233-390W BAPT 8515-233-395W BAPT 8515-233-400W BAPT 8515-233-405W BAPT 8515-234-385W BAPT 8515-234-390W BAPT 8515-234-395W BAPT 8515-234-400W BAPT 8515-234-405W

CERTIFICATE



MCS Product Certificate

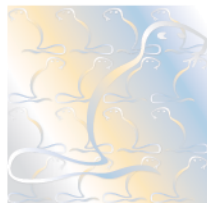


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PV module manufacturer	PV module model names	MCS Certificate Number
SolarEdge Technologies Ltd.	SolarEdge Smart Module yPVxxx-R60DzMG (xxx = Power ; y = {S,Ø} ; z = {B,W})	BABT8787-101-345W to BABT8787-101-370W BABT8787-102-345W to BABT8787-102-370W BABT8787-103-345W to BABT8787-103-370W BABT8787-104-345W to BABT8787-104-370W
Hanwha Q CELLS GmbH	Q.PEAK DUO zzz ML-Gy {y = 10 ; 10+} , {zzz = BLK ; Ø}	MCS PV0062/562 - MCS PV0062/568 MCS PV0062/569 - MCS PV0062/575 MCS PV0062/576 - MCS PV0062/582 MCS PV0062/583 - MCS PV0062/589 MCS PV0062/590 - MCS PV0062/596 MCS PV0062/597 - MCS PV0062/603 MCS PV0062/604 - MCS PV0062/610 MCS PV0062/611 - MCS PV0062/617
Hanwha Q CELLS GmbH	Q.PEAK DUO zzz ML-Gy {y = 11 ; 11+} , {zzz = BLK ; Ø}	MCS PV0062/634 - MCS PV0062/639 MCS PV0062/640 - MCS PV0062/645 MCS PV0062/646 - MCS PV0062/651 MCS PV0062/652 - MCS PV0062/657
European Energy World, S.L.	Eurener MEPVxxx V1 (xxx = power)	BABT8806-105-390W to BABT8806-105-415W
European Energy World, S.L.	Eurener MEPVxxx X (xxx = power)	BABT8806-103-295W to BABT8806-103-380W
Hengdian Group DMEGC Magnetics Co., Ltd.	DM380M10-54HBB DM385M10-54HBB DM390M10-54HBB DM395M10-54HBB DM400M10-54HBB DM405M10-54HBB DM410M10-54HBB DM415M10-54HBB	BABT 8586-217-380W BABT 8586-217-385W BABT 8586-217-390W BABT 8586-217-395W BABT 8586-217-400W BABT 8586-217-405W BABT 8586-217-410W BABT 8586-217-415W
Phono Solar Technology Co., Ltd	PS385M6H-18/VH PS390M6H-18/VH PS395M6H-18/VH PS400M6H-18/VH PS405M6H-18/VH PS410M6H-18/VH PS415M6H-18/VH PS385M6-18/VH PS390M6-18/VH PS395M6-18/VH PS400M6-18/VH PS405M6-18/VH PS410M6-18/VH PS415M6-18/VH	BABT8758-164-385W BABT8758-164-390W BABT8758-164-395W BABT8758-164-400W BABT8758-164-405W BABT8758-164-410W BABT8758-164-415W BABT8758-174-385W BABT8758-174-390W BABT8758-174-395W BABT8758-174-400W BABT8758-174-405W BABT8758-174-410W BABT8758-174-415W

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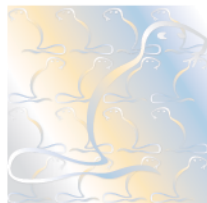
MCS Product Certificate



Annex I to Certificate KIWA00041

CERTIFICATE

PV module manufacturer	PV module model names	MCS Certificate Number
LONGi Green Energy Technology Co., Ltd.	LR5-54HPB-390M	BABT8771-30/00-390W
	LR5-54HPB-395M	BABT8771-30/00-395W
	LR5-54HPB-400M	BABT8771-30/00-400W
	LR5-54HPB-405M	BABT8771-30/00-405W
	LR5-54HPB-410M	BABT8771-30/00-410W
	LR5-54HPB-415M	BABT8771-30/00-415W
	LR5-54HPB-420M	BABT8771-30/00-420W
	LR5-54HPB-425M	BABT8771-30/00-425W
	LR5-54HPH-395M	BABT8771-32/00-395W
	LR5-54HPH-400M	BABT8771-32/00-400W
	LR5-54HPH-405M	BABT8771-32/00-405W
	LR5-54HPH-410M	BABT8771-32/00-410W
	LR5-54HPH-415M	BABT8771-32/00-415W
	LR5-54HPH-420M	BABT8771-32/00-420W
	LR5-54HPH-425M	BABT8771-32/00-425W
	LR5-54HPH-430M	BABT8771-32/00-430W
	LR5-54HPH-435M	BABT8771-32/00-435W
	LR5-54HIH-395M	BABT8771-31/00-395W
	LR5-54HIH-400M	BABT8771-31/00-400W
	LR5-54HIH-405M	BABT8771-31/00-405W
	LR5-54HIH-410M	BABT8771-31/00-410W
	LR5-54HIH-415M	BABT8771-31/00-415W
	LR5-54HIH-420M	BABT8771-31/00-420W
	LR5-54HIH-425M	BABT8771-31/00-425W
	LR5-54HIH-430M	BABT8771-31/00-430W
	LR5-54HIH-435M	BABT8771-31/00-435W
	LR5-54HIB-390M	BABT8771-29/00-390W
	LR5-54HIB-395M	BABT8771-29/00-395W
	LR5-54HIB-400M	BABT8771-29/00-400W
	LR5-54HIB-405M	BABT8771-29/00-405W
	LR5-54HIB-410M	BABT8771-29/00-410W
	LR5-54HIB-415M	BABT8771-29/00-415W
	LR5-54HIB-420M	BABT8771-29/00-420W
	LR5-54HIB-425M	BABT8771-29/00-425W
	LR5-54HTH-405M	BABT8771-33/00-405W
	LR5-54HTH-410M	BABT8771-33/00-410W
	LR5-54HTH-415M	BABT8771-33/00-415W
	LR5-54HTH-420M	BABT8771-33/00-420W
	LR5-54HTH-425M	BABT8771-33/00-425W
	LR5-54HTH-430M	BABT8771-33/00-430W
	LR5-54HTH-435M	BABT8771-33/00-435W
	LR5-54HTH-440M	BABT8771-33/00-440W
	LR5-54HTH-445M	BABT8771-33/00-445W
	LR5-54HTH-450M	BABT8771-33/00-450W
	LR5-54HTB-400M	BABT8771-34/00-400W
	LR5-54HTB-405M	BABT8771-34/00-405W
	LR5-54HTB-410M	BABT8771-34/00-410W
	LR5-54HTB-415M	BABT8771-34/00-415W
LR5-54HTB-420M	BABT8771-34/00-420W	
LR5-54HTB-425M	BABT8771-34/00-425W	
LR5-54HTB-430M	BABT8771-34/00-430W	
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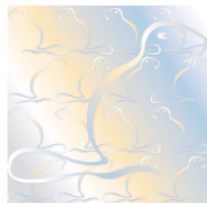
MCS Product Certificate



Annex I to Certificate KIWA00041

PV module manufacturer	PV module model names	MCS Certificate Number
WuXi Suntech Power Co Ltd	STP390S-C54/Umh	BBA 0198/485
	STP395S-C54/Umh	BBA 0198/486
	STP400S-C54/Umh	BBA 0198/487
	STP405S-C54/Umh	BBA 0198/488
	STP410S-C54/Umh	BBA 0198/489
	STP390S-C54/Umhb	BBA 0198/490
	STP395S-C54/Umhb	BBA 0198/491
	STP400S-C54/Umhb	BBA 0198/492
	STP405S-C54/Umhb	BBA 0198/493
	STP410S-C54/Umhb	BBA 0198/494
	STP390S-C54/Umhm	BBA 0198/495
	STP395S-C54/Umhm	BBA 0198/496
	STP400S-C54/Umhm	BBA 0198/497
	STP405S-C54/Umhm	BBA 0198/498
	STP410S-C54/Umhm	BBA 0198/499
	STP415S-C54/Umhm	BBA 0198/509
	STP420S-C54/Umhm	BBA 0198/510
	STP425S-C54/Umhm	BBA 0198/511
	STP430S-C54/Umhm	BBA 0198/512
	STP435S-C54/Umhm	BBA 0198/513
	STP415S-C54/Umhb	BBA 0198/514
	STP420S-C54/Umhb	BBA 0198/515
	STP425S-C54/Umhb	BBA 0198/516
	STP430S-C54/Umhb	BBA 0198/517
	STP435S-C54/Umhb	BBA 0198/518
	STP405S-C54/Nmhm+	BBA 0198/519
	STP410S-C54/Nmhm+	BBA 0198/520
	STP415S-C54/Nmhm+	BBA 0198/521
	STP420S-C54/Nmhm+	BBA 0198/522
	STP425S-C54/Nmhm+	BBA 0198/523
	STP430S-C54/Nmhm+	BBA 0198/524
	STP435S-C54/Nmhm+	BBA 0198/525
	STP405S-C54/Nmhb+	BBA 0198/526
	STP410S-C54/Nmhb+	BBA 0198/527
	STP415S-C54/Nmhb+	BBA 0198/528
	STP420S-C54/Nmhb+	BBA 0198/529
	STP425S-C54/Nmhb+	BBA 0198/530
	STP430S-C54/Nmhb+	BBA 0198/531
	STP435S-C54/Nmhb+	BBA 0198/532
	STP415S-C54/Nshm	BBA 0198/570
	STP420S-C54/Nshm	BBA 0198/571
	STP425S-C54/Nshm	BBA 0198/572
	STP430S-C54/Nshm	BBA 0198/573
	STP435S-C54/Nshm	BBA 0198/574
STP410S-C54/Nshb	BBA 0198/575	
STP415S-C54/Nshb	BBA 0198/576	
STP420S-C54/Nshb	BBA 0198/577	
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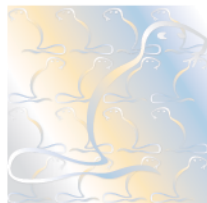
MCS Product Certificate

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PV module manufacturer	PV module model names	MCS Certificate Number
European Energy World, S.L	MEPV295X1 MEPV300X1 MEPV305X1 MEPV310X1 MEPV315X1 MEPV320X1 MEPV325X1 MEPV330X1 MEPV335X1 MEPV340X1 MEPV345X1 MEPV350X1 MEPV355X1 MEPV360X1 MEPV365X1 MEPV370X1 MEPV375X1 MEPV380X1 MEPV385X1 MEPV390X1 MEPV395X1 MEPV400X1 MEPV405X1 MEPV410X1 MEPV415X1 MEPV420X1 MEPV425X1 MEPV430X1 MEPV435X1 MEPV440X1 MEPV445X1 MEPV450X1 MEPV455X1 MEPV460X1	BAPT8806-104-295W BAPT8806-104-300W BAPT8806-104-305W BAPT8806-104-310W BAPT8806-104-315W BAPT8806-104-320W BAPT8806-104-325W BAPT8806-104-330W BAPT8806-104-335W BAPT8806-104-340W BAPT8806-104-345W BAPT8806-104-350W BAPT8806-104-355W BAPT8806-104-360W BAPT8806-104-365W BAPT8806-104-370W BAPT8806-104-375W BAPT8806-104-380W BAPT8806-104-385W BAPT8806-104-390W BAPT8806-104-395W BAPT8806-104-400W BAPT8806-104-405W BAPT8806-104-410W BAPT8806-104-415W BAPT8806-104-420W BAPT8806-104-425W BAPT8806-104-430W BAPT8806-104-435W BAPT8806-104-440W BAPT8806-104-445W BAPT8806-104-450W BAPT8806-104-455W BAPT8806-104-460W
Shanghai JA Solar Tech Co Ltd.	JAM72S20-430/MR JAM72S20-435/MR JAM72S20-440/MR JAM72S20-445/MR JAM72S20-450/MR JAM72S20-455/MR JAM72S20-460/MR JAM72S20-465/MR JAM72S20-470/MR	BAPT 8515-207-R27-430W BAPT 8515-207-R27-435W BAPT 8515-207-R27-440W BAPT 8515-207-R27-445W BAPT 8515-207-R27-450W BAPT 8515-207-R27-455W BAPT 8515-207-R27-460W BAPT 8515-207-R27-465W BAPT 8515-207-R27-470W

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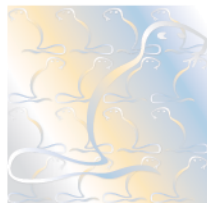
MCS Product Certificate



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PV module manufacturer	PV module model names	MCS Certificate Number
Hanwha Q CELLS GmbH	Q.PEAK DUO ML-G11S.2 480	MCS PV0062/815
	Q.PEAK DUO ML-G11S.2 485	MCS PV0062/816
	Q.PEAK DUO ML-G11S.2 490	MCS PV0062/817
	Q.PEAK DUO ML-G11S.2 495	MCS PV0062/818
	Q.PEAK DUO ML-G11S.2 500	MCS PV0062/819
	Q.PEAK DUO ML-G11S.2 505	MCS PV0062/820
	Q.PEAK DUO ML-G11S.2 510	MCS PV0062/831
	Q.PEAK DUO ML-G11S.2+ 480	MCS PV0062/821
	Q.PEAK DUO ML-G11S.2+ 485	MCS PV0062/822
	Q.PEAK DUO ML-G11S.2+ 490	MCS PV0062/823
	Q.PEAK DUO ML-G11S.2+ 495	MCS PV0062/824
	Q.PEAK DUO ML-G11S.2+ 500	MCS PV0062/825
	Q.PEAK DUO ML-G11S.2+ 505	MCS PV0062/826
	Q.PEAK DUO ML-G11S.2+ 510	MCS PV0062/832
	Q.PEAK DUO M-G11S 375	MCS PV0062/761
	Q.PEAK DUO M-G11S 380	MCS PV0062/762
	Q.PEAK DUO M-G11S 385	MCS PV0062/763
	Q.PEAK DUO M-G11S 390	MCS PV0062/764
	Q.PEAK DUO M-G11S 395	MCS PV0062/765
	Q.PEAK DUO M-G11S 400	MCS PV0062/766
	Q.PEAK DUO M-G11S 405	MCS PV0062/767
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	Q.PEAK DUO M-G11S 415	MCS PV0062/769
	Q.PEAK DUO M-G11S 420	MCS PV0062/827
	Q.PEAK DUO M-G11S+ 375	MCS PV0062/779
	Q.PEAK DUO M-G11S+ 380	MCS PV0062/780
	Q.PEAK DUO M-G11S+ 385	MCS PV0062/781
	Q.PEAK DUO M-G11S+ 390	MCS PV0062/782
	Q.PEAK DUO M-G11S+ 395	MCS PV0062/783
	Q.PEAK DUO M-G11S+ 400	MCS PV0062/784
	Q.PEAK DUO M-G11S+ 405	MCS PV0062/785
	Q.PEAK DUO M-G11S+ 410	MCS PV0062/786
	Q.PEAK DUO M-G11S+ 415	MCS PV0062/787
	Q.PEAK DUO M-G11S+ 420	MCS PV0062/828
	Q.PEAK DUO M-G11S.4 375	MCS PV0062/833
	Q.PEAK DUO M-G11S.4 380	MCS PV0062/834
	Q.PEAK DUO M-G11S.4 385	MCS PV0062/835
	Q.PEAK DUO M-G11S.4 390	MCS PV0062/836
	Q.PEAK DUO M-G11S.4 395	MCS PV0062/837
	Q.PEAK DUO M-G11S.4 400	MCS PV0062/838
	Q.PEAK DUO M-G11S.4 405	MCS PV0062/839
	Q.PEAK DUO M-G11S.4 410	MCS PV0062/840
	Q.PEAK DUO M-G11S.4 415	MCS PV0062/841
	Q.PEAK DUO M-G11S.4 420	MCS PV0062/842

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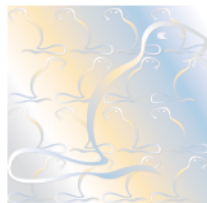
MCS Product Certificate



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PV module manufacturer	PV module model names	MCS Certificate Number
Ningbo Ulica Solar Co Ltd	UL-330M-108 to UL-335M-108	BABT 8532-53-330W to BABT 8532-53-335W
	UL-325M-108HV to UL-335M-108HV	BABT 8532-57-325W to BABT 8532-57-335W
	UL-390M-108 (9.72) to UL-415M-108 (9.72)	BABT 8532-64-390W to BABT 8532-64-415W
	UL-390M-108HV (9.72) to UL-415M-108HV (9.72)	BABT 8532-70-390W to BABT 8532-70-415W
	UL-525M-108 (11.61) to UL-545M-108 (11.61)	BABT 8532-74-525W to BABT 8532-74-545W
	UL-525M-108HV (11.61) to UL-545M-108HV (11.61)	BABT 8532-77-525W to BABT 8532-77-545W
	UL-470M-108DDGN to UL-505M-108DDGN	BABT8532-201-470W to BABT8532-201-505W
	UL-420M-108BHVN to UL-455M-108BHVN	BABT8532-123-420W to BABT8532-123-455W
	UL-410M-108AN to UL-440M-108AN	BABT8532-105-410W to BABT8532-105-440W
	UL-520M-108DBDGN to UL-555M-108DBDGN	BABT8532-205-520W to BABT8532-205-555W
	UL-430M-108CN to UL-465M-108CN	BABT8532-128-430W to BABT8532-128-465W
	UL-550M-108DGN to UL-570M-108DGN	BABT8532-209-550W to BABT8532-209-570W
	UL-415M-108AHVN to UL-440M-108AHVN	BABT8532-111-415W to BABT8532-111-440W
	UL-605M-108BDGN to UL-625M-108BDGN	BABT8532-213-605W to BABT8532-213-625W
	UL-430M-108CHVN to UL-465M-108CHVN	BABT8532-133-430W to BABT8532-133-465W
	UL-420M-108BN to UL-455M-108BN	BABT8532-117-420W to BABT8532-117-455W
	UL-470M-108DN to UL-505M-108DN	BABT8532-137-470W to BABT8532-137-505W
	UL-470M-108DHVN to UL-505M-108DHVN	BABT8532-141-470W to BABT8532-141-505W
	UL-550M-108N to UL-570M-108N	BABT8532-145-550W to BABT8532-145-570W
	UL-550M-108HVN to UL-570M-108HVN	BABT8532-149-550W to BABT8532-149-570W
	UL-325M-108DG to UL-340M-108DG	BABT8532-153-325W to BABT8532-153-340W
	UL-525M-108DG to UL-550M-108DG	BABT8532-161-525W to BABT8532-161-550W
	UL-360M-108BDG to UL-375M-108BDG	BABT8532-157-360W to BABT8532-157-375W
	UL-575M-108BDG to UL-600M-108BDG	BABT8532-164-575W to BABT8532-164-600W
	UL-410M-108ADGN to UL-440M-108ADGN	BABT8532-169-410W to BABT8532-169-440W
	UL-450M-108ABDGN to UL-480M-108ABDGN	BABT8532-175-450W to BABT8532-175-480W
	UL-420M-108BDGN to UL-455M-108BDGN	BABT8532-181-420W to BABT8532-181-455W
	UL-465M-108BBDGN to UL-500M-108BBDGN	BABT8532-187-465W to BABT8532-187-500W
	UL-430M-108CDGN to UL-465M-108CDGN	BABT8532-192-430W to BABT8532-192-465W
	UL-475M-108CBDGN to UL-510M-108CBDGN	BABT8532-197-475W to BABT8532-197-510W



MCS Product Certificate

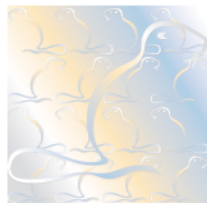


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PV module manufacturer	PV module model names	MCS Certificate Number
LONGi Green Energy Technology Co., Ltd.	LR7-54HVH-460M	BABT8771-56/00-460W
	LR7-54HVH-465M	BABT8771-56/00-465W
	LR7-54HVH-470M	BABT8771-56/00-470W
	LR7-54HVH-475M	BABT8771-56/00-475W
	LR7-54HVH-480M	BABT8771-56/00-480W
	LR7-54HVH-485M	BABT8771-56/00-485W
	LR7-54HVH-490M	BABT8771-56/00-490W
	LR7-54HVH-495M	BABT8771-56/00-495W
LONGi Green Energy Technology Co., Ltd.	LR7-54HVB-500M	BABT8771-56/00-500W
	LR7-54HVB-475M	BABT8771-60/00-475W
	LR7-54HVB-480M	BABT8771-60/00-480W
	LR7-54HVB-485M	BABT8771-60/00-485W
	LR7-54HVB-490M	BABT8771-60/00-490W
LONGi Green Energy Technology Co., Ltd.	LR7-54HVB-495M	BABT8771-60/00-495W
	LR7-54HVB-500M	BABT8771-60/00-500W
	LR7-60HVH-535M	BABT8771-61/00-535W
	LR7-60HVH-540M	BABT8771-61/00-540W
	LR7-60HVH-545M	BABT8771-61/00-545W
LONGi Green Energy Technology Co., Ltd.	LR7-60HVH-550M	BABT8771-61/00-550W
	LR7-60HVH-555M	BABT8771-61/00-555W
LONGi Green Energy Technology Co., Ltd.	LR7-60HVH-560M	BABT8771-61/00-560W

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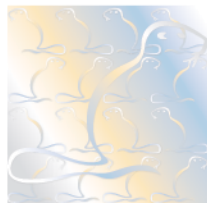
MCS Product Certificate



Annex I to Certificate KIWA00041

PV module manufacturer	PV module model names	MCS Certificate Number
JA Solar Technology Co., Ltd.	JAM66S30-470/MR to JAM66S30-510/MR JAM66S30-500/GR/1500V to JAM66S30-510/GR/1500V JAM66S30-500/GR/1000V to JAM66S30-510/GR/1000V JAM66S30-500/GR to JAM66S30-510/GR JAM66S31-480/GR/1500V to JAM66S31-500/GR/1500V JAM66S31-480/GR/1000V to JAM66S31-500/GR/1000V JAM66S31-480/GR to JAM66S31-500/GR	BAPT 8515-219-470W to BAPT 8515-219-510W BAPT 8515-276-500W to BAPT 8515-276-510W BAPT 8515-277-500W to BAPT 8515-277-510W BAPT 8515-278-500W to BAPT 8515-278-510W BAPT 8515-288-480W to BAPT 8515-288-500W BAPT 8515-289-480W to BAPT 8515-289-500W BAPT 8515-290-480W to BAPT 8515-290-500W
JA Solar Technology Co., Ltd.	JAM54D40-420/LB/1500V to JAM54D40-460/LB/1500V JAM54D40-420/LB to JAM54D40-460/LB JAM54D41-420/LB/1500V to JAM54D41-440/LB/1500V JAM54D41-420/LB to JAM54D41-440/LB JAM54D42-455/LB to JAM54D42-485/LB JAM54D42-455/LB/1500V to JAM54D42-485/LB/1500V JAM54D40-440/HB/1500V to JAM54D40-450/HB/1500V JAM54D40-440/HB to JAM54D40-450/HB JAM54D41-430/HB/1500V to JAM54D41-445/HB/1500V JAM54D41-430/HB to JAM54D41-445/HB JAM54S41-420/LR to JAM54S41-445/LR JAM54S40-420/LR to JAM54S40-460/LR JAM54S40-420/LR to JAM54S40-460/LR JAM54S41-420/LR to JAM54S41-445/LR	BAPT 8515-343-420W to BAPT 8515-343-460W BAPT 8515-344-420W to BAPT 8515-344-460W BAPT 8515-345-420W to BAPT 8515-345-440W BAPT 8515-346-420W to BAPT 8515-346-440W BAPT 8515-370-455W to BAPT 8515-370-485W BAPT 8515-369-455W to BAPT 8515-369-485W BAPT8515-375-440W to BAPT8515-375-450W BAPT8515-376-440W to BAPT8515-376-450W BAPT8515-377-430W to BAPT8515-377-445W BAPT8515-378-430W to BAPT8515-378-445W MCS PV0392/101 to MCS PV0392/106 MCS PV0392/77 to MCS PV0392/85 MCS PV0392/86 to MCS PV0392/94 MCS PV0392/95 to MCS PV0392/100
JA Solar Technology Co., Ltd.	JAM60D40-455/MB/1500V to JAM60D40-495/MB/1500V JAM60D40-455/MB to JAM60D40-495/MB JAM60D40-455/GB/1500V to JAM60D40-495/GB/1500V JAM60D40-455/GB to JAM60D40-495/GB JAM60S40-450/GR/1500V to JAM60S40-475/GR/1500V JAM60S40-450/GR/1000V to JAM60S40-475/GR/1000V JAM60S40-450/GR to JAM60S40-480/GR JAM60S41-450/GR/1500V to JAM60S41-475/GR/1500V JAM60S41-450/GR/1000V to JAM60S41-475/GR/1000V JAM60S41-450/GR to JAM60S41-475/GR JAM60D40-485/LB/1500V to JAM60D40-515/LB/1500V JAM60D40-485/LB to JAM60D40-515/LB JAM60D42-500/LB/1500V to JAM60D42-545/LB/1500V JAM60D42-500/LB to JAM60D42-545/LB JAM60D41-485/LB/1500V to JAM60D41-500/LB/1500V JAM60D41-485/LB to JAM60D41-500/LB JAM60S42-500/LR to JAM60S42-535/LR JAM60S42-500/LR to JAM60S42-535/LR JAM60S42-500/LR to JAM60S42-535/LR JAM60S43-495/LR to JAM60S43-530/LR JAM60S43-495/LR to JAM60S43-530/LR JAM60S43-495/LR to JAM60S43-530/LR	BAPT 8515-262-455W to BAPT 8515-262-495W BAPT 8515-263-455W to BAPT 8515-263-495W BAPT 8515-272-455W to BAPT 8515-272-495W BAPT 8515-273-455W to BAPT 8515-273-495W BAPT 8515-300-450W to BAPT 8515-300-480W BAPT 8515-301-450W to BAPT 8515-301-480W BAPT 8515-302-450W to BAPT 8515-302-480W BAPT 8515-312-450W to BAPT 8515-312-475W BAPT 8515-313-450W to BAPT 8515-313-475W BAPT 8515-314-450W to BAPT 8515-314-475W BAPT8515-379-485W to BAPT8515-379-515W BAPT8515-380-485W to BAPT8515-380-515W BAPT8515-381-500W to BAPT8515-381-545W BAPT8515-382-500W to BAPT8515-382-545W BAPT8515-391-485W to BAPT8515-391-500W BAPT8515-392-485W to BAPT8515-392-500W MCS PV0392/197 to MCS PV0392/204 MCS PV0392/205 to MCS PV0392/212 MCS PV0392/213 to MCS PV0392/220 MCS PV0392/221 to MCS PV0392/228 MCS PV0392/229 to MCS PV0392/236 MCS PV0392/237 to MCS PV0392/244

CERTIFICATE



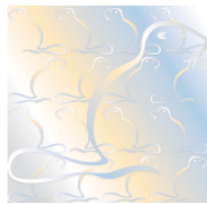
MCS Product Certificate



Annex I to Certificate KIWA00041

PV module manufacturer	PV module model names	MCS Certificate Number
JA Solar Technology Co., Ltd.	JAM54S40-450/MR JAM54D40-405/MB/1500V to JAM54D40-455/MB/1500V JAM54D40-405/MB to JAM54D40-455/MB JAM54D40-405/GB/1500V to JAM54D40-450/GB/1500V JAM54D40-405/GB to JAM54D40-450/GB JAM54S40-405/GR/1500V to JAM54S40-430/GR/1500V JAM54S40-405/GR/1000V to JAM54S40-430/GR/1000V JAM54S40-405/GR to JAM54S40-430/GR JAM54S41-405/GR/1500V to JAM54S41-430/GR/1500V JAM54S41-405/GR/1000V to JAM54S41-430/GR/1000V JAM54S41-405/GR to JAM54S41-430/GR JAM54D41-415/GB/1500V to JAM54D41-435/GB/1500V JAM54D41-415/GB to JAM54D41-435/GB JAM54D41-405/MB/1500V to JAM54D41-440/MB/1500V JAM54D41-405/MB to JAM54D41-440/MB	MCS PV0392/20 BABT 8515-264-405W to BABT 8515-264-455W BABT 8515-265-405W to BABT 8515-265-455W BABT 8515-274-405W to BABT 8515-274-450W BABT 8515-275-405W to BABT 8515-275-450W BABT 8515-303-405W to BABT 8515-303-430W BABT 8515-304-405W to BABT 8515-304-430W BABT 8515-305-405W to BABT 8515-305-430W BABT 8515-315-405W to BABT 8515-315-430W BABT 8515-316-405W to BABT 8515-316-430W BABT 8515-317-405W to BABT 8515-317-430W BABT 8515-324-415W to BABT 8515-324-435W BABT 8515-325-415W to BABT 8515-325-435W BABT8515-389 -405W to BABT8515-389-440W BABT8515-390 -405W to BABT8515-390-440W
Canadian Solar Inc	CS6R-405T to CS6R-455T CS6R-400H-AG to CS6R-445H-AG CS6R-380MS to CS6R-420MS	BABT8767-64-405W to BABT8767-64-455W BABT8767-57-400W to BABT8767-57-445W BABT8767-59-380W to BABT8767-59-420W
Hanwha Q CELLS GmbH	Q.TRON BLK S-G3R.12+/BFG 420 to Q.TRON BLK S-G3R.12+/BFG 450 Q.TRON S-G3R.12+/BFG 420 to Q.TRON S-G3R.12+/BFG 450	MR 50665221 0001/001 to MR 50665221 0001/007 MR 50665221 0001/008 to MR 50665221 0001/014
Trina Solar Co., Ltd.	TSM-390DEG9.28 to TSM-405DEG9.28 TSM-390DEG9.20 to TSM-405DEG9.20 TSM-400NEG9.28 to TSM-425NEG9.28 TSM-400NEG9.20 to TSM-425NEG9.20 TSM-395DEG9R.B0 to TSM-435DEG9R.B0 TSM-395DEG9R.B8 to TSM-435DEG9R.B8 TSM-395DEG9R.20W to TSM-435DEG9R.20W TSM-395DEG9R.28W to TSM-435DEG9R.28W TSM-395NEG9R.28 to TSM-450NEG9R.28 TSM-375NEG9R.25 to TSM-460NEG9R.25	BABT8804-101-390W to BABT8804-101-405W BABT8804-102-390W to BABT8804-102-405W BABT8804-105-400W to BABT8804-105-425W BABT8804-106-400W to BABT8804-106-425W BABT8804-110-395W to BABT8804-110-435W BABT8804-111-395W to BABT8804-111-435W BABT8804-115-395W to BABT8804-115-435W BABT8804-117-395W to BABT8804-117-435W BABT8804-123-395W to BABT8804-123-450W BABT8804-129-375W to BABT8804-129-460W
Trina Solar Co., Ltd.	TSM-395NEG9RC.27 to TSM-450NEG9RC.27 TSM-395DEG9RC.B7 to TSM-435DEG9RC.B7 TSM-395DEG9RC.27W to TSM-435DEG9RC.27W TSM-385DEG9C.27 to TSM-385DEG9C.27 TSM-400NEG9C.27 to TSM-425NEG9C.27	BABT8804-124-395W to BABT8804-124-450W BABT8804-109-395W to BABT8804-109-435W BABT8804-116-395W to BABT8804-116-435W BABT8804-103-385W to BABT8804-103-405W BABT8804-107-400W to BABT8804-107-425W

CERTIFICATE



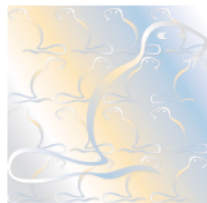
MCS Product Certificate



Annex I to Certificate KIWA00041

PV module manufacturer	PV module model names	MCS Certificate Number
Jinko Solar Co., Ltd.	JKM365N-54HL4-V to JKM455N-54HL4-V JKM435N-54HL4 to JKM455N-54HL4 JKM380N-54HL4-B-V to JKM400N-54HL4-B-V JKM380N-54HL4-B to JKM450N-54HL4-B JKM380M-54HL4-B-V to JKM400M-54HL4-B-V JKM360M-54HL4-V to JKM430M-54HL4-V JKM380M-54HL4-B to JKM405M-54HL4-B JKM365N-54HL4R-V to JKM455N-54HL4R-V JKM365N-54HL4R to JKM455N-54HL4R JKM380N-54HL4R-B to JKM450N-54HL4R-B JKM360N-54HL4R-BDV to JKM455N-54HL4R-BDV JKM-360N-54HL4R-BDB to JKM-455N-54HL4R-BDB	BABT8801-114-365W to BABT8801-114-455W BABT8801-115-435W to BABT8801-115-455W BABT8801-116-380W to BABT8801-116-400W BABT8801-117-380W to BABT8801-117-450W BABT8801-118-380W to BABT8801-118-400W BABT8801-119-360W to BABT8801-119-430W BABT8801-120-380W to BABT8801-120-405W BABT8801-201-365W to BABT8801-201-455W BABT8801-202-365W to BABT8801-202-455W BABT8801-203-380W to BABT8801-203-450W BABT8801-204-360W to BABT8801-204-455W BABT8801-216-360W to BABT8801-216-455W
Perlight Solar Co., Ltd.	PLM-440H8M-120 to PLM-455H8M-120 PLM-460H8N-120 to PLM-480H8N-120 PLM-460H8NB-120 to PLM-480H8NB-120 PLM-440H8MT-120 to PLM-455H8MT-120 PLM-465H8NT-120 to PLM-480H8NT-120 PLM-440H8MB-120 to PLM-455H8MB-120	BABT8871-137-440W to BABT8871-137-455W BABT8871-200-460W to BABT8871-200-480W BABT8871-305-460W to BABT8871-305-480W BABT8871-317-440W to BABT8871-317-455W BABT8871-380-465W to BABT8871-380-480W BABT8871-242-440W to BABT8871-242-455W
European Energy World, S.L.	MEPV380P-18I to MEPV425P-18I	BABT8916-106-380W to BABT8916-106-425W
European Energy World, S.L.	MEPV490HH-12ZII to MEPV505HH-12ZII MEPV430P-11ZII to MEPV450P-11ZII MEPV465P-12ZII to MEPV480P-12ZII	BABT8916-216-490W to BABT8916-216-505W BABT8916-198-430W to BABT8916-198-450W BABT8916-203-465W to BABT8916-203-480W
European Energy World, S.L.	MEPV430P-11ZII to MEPV450P-11ZII MEPV430P(B)-11ZII to MEPV450P(B)-11ZII MEPV435P-11ZI to MEPV450P-11ZI MEPV435P(T)-11ZI to MEPV450P(T)-11ZI MEPV435P(B)-11ZI to MEPV450P(B)-11ZI	BABT8916-198-430W to BABT8916-198-450W BABT8916-232-430W to BABT8916-232-450W BABT8916-126-435W to BABT8916-126-450W BABT8916-186-435W to BABT8916-186-450W BABT8916-161-435W to BABT8916-161-450W

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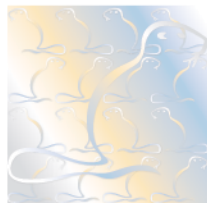
MCS Product Certificate



Annex I to Certificate KIWA00041

CERTIFICATE

PV module manufacturer	PV module model names	MCS Certificate Number
Phono Solar Technology Co., Ltd	PS420M8GFH-18/VSHB to PS440M8GFH-18/VSHB PS410M8GFH-18/VSH to PS440M8GFH-18/VSH PS410M8GFH-18/VSHW to PS450M8GFH-18/VSHW PS410M8GFH-18/VSHW to PS450M8GFH-18/VSHW PS425M8GFH-18/VSHM to PS445M8GFH-18/VSHM PS420M8GFH-18/VSH to PS440M8GFH-18/VSH PS420M8GFH-18/VSH to PS440M8GFH-18/VSH PS425M6GFH-18/VSHB to PS445M6GFH-18/VSHB PS400M8GF-18/VH to PS415M8GF-18/VH PS425M8GF-18/VNH to PS440M8GF-18/VNH PS400M8GFH-18/VH to PS415M8GFH-18/VH PS395M6H-18/VH to PS425M6H-18/VH PS425M8GFH-18/VNH to PS440M8GFH-18/VNH PS405M8GF-18/VNH to PS430M8GF-18/VNH PS390M8-18/VH to PS420M8-18/VH PS405M8GFH-18/VNH to PS430M8GFH-18/VNH PS390M8GF-18/VH to PS420M8GF-18/VH PS390M8H-18/VH to PS420M8H-18/VH PS390M8GFH-18/VH to PS420M8GFH-18/VH	BABT8924-108-420W to BABT8924-108-440W BABT8924-107-410W to BABT8924-107-440W BABT8924-105-410W to BABT8924-105-450W BABT8876-104-410W to BABT8876-104-450W BABT8876-105-425W to BABT8876-105-445W BABT8876-106-420W to BABT8876-106-440W BABT8876-107-420W to BABT8876-107-440W BABT8924-106-425W to BABT8924-106-445W BABT8758-242-400W to BABT8758-242-415W BABT8758-236-425W to BABT8758-236-440W BABT8758-219-400W to BABT8758-219-415W BABT8758-223-395W to BABT8758-223-425W BABT8758-213-425W to BABT8758-213-440W BABT8758-200-405W to BABT8758-200-430W BABT8758-192-390W to BABT8758-192-420W BABT8758-196-405W to BABT8758-196-430W BABT8758-184-390W to BABT8758-184-420W BABT8758-188-390W to BABT8758-188-420W BABT8758-179-390W to BABT8758-179-420W
Hengdian Group DMEGC Magnetics Co., Ltd.	DM460M10RT-G54HBW-L (1762*1134*35mm) DM460M10RT-G54HBW-L (1762*1134*30mm) DM460M10RT-G54HSW-L (1762*1134*35mm) DM460M10RT-G54HSW-L (1762*1134*30mm) DM460M10RT-G54HBB-L (1762*1134*35mm) DM460M10RT-G54HBB-L (1762*1134*30mm) DM460M10RT-G54HBW (1762*1134*35mm) DM460M10RT-G54HBW (1762*1134*30mm) DM460M10RT-G54HSW (1762*1134*35mm) DM460M10RT-G54HSW (1762*1134*30mm) DM460M10RT-G54HBB (1762*1134*35mm) DM460M10RT-G54HBB (1762*1134*30mm)	MR 50616791 0003/232 MR 50616791 0003/231 MR 50616791 0003/230 MR 50616791 0003/229 MR 50616791 0003/228 MR 50616791 0003/227 MR 50616791 0003/226 MR 50616791 0003/225 MR 50616791 0003/224 MR 50616791 0003/223 MR 50616791 0003/222 MR 50616791 0003/221



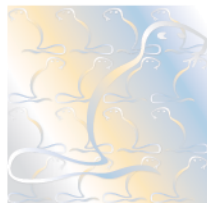
MCS Product Certificate



Annex I to Certificate KIWA00041

CERTIFICATE

PV module manufacturer	PV module model names	MCS Certificate Number
Hengdian Group DMEGC Magnetics Co., Ltd.	DM455M10RT-B54HBT-L (1762*1134*35mm) to DM460M10RT-B54HBT-L (1762*1134*35mm)	MR 50616791 0003/169 to MR 50616791 0003/170
	DM455M10RT-B54HBT-L (1762*1134*30mm) to DM460M10RT-B54HBT-L (1762*1134*30mm)	MR 50616791 0003/167 to MR 50616791 0003/168
	DM455M10RT-B54HBW-L (1762*1134*35mm) to DM460M10RT-B54HBW-L (1762*1134*35mm)	MR 50616791 0003/165 to MR 50616791 0003/166
	DM455M10RT-B54HBW-L (1762*1134*30mm) to DM460M10RT-B54HBW-L (1762*1134*30mm)	MR 50616791 0003/163 to MR 50616791 0003/164
	DM455M10RT-B54HST-L (1762*1134*35mm) to DM460M10RT-B54HST-L (1762*1134*35mm)	MR 50616791 0003/161 to MR 50616791 0003/162
	DM455M10RT-B54HST-L (1762*1134*30mm) to DM460M10RT-B54HST-L (1762*1134*30mm)	MR 50616791 0003/159 to MR 50616791 0003/160
	DM455M10RT-B54HSW-L (1762*1134*35mm) to DM460M10RT-B54HSW-L (1762*1134*35mm)	MR 50616791 0003/157 to MR 50616791 0003/158
	DM455M10RT-B54HSW-L (1762*1134*30mm) to DM460M10RT-B54HSW-L (1762*1134*30mm)	MR 50616791 0003/155 to MR 50616791 0003/156
	DM455M10RT-B54HBB-L (1762*1134*35mm) to DM460M10RT-B54HBB-L (1762*1134*35mm)	MR 50616791 0003/153 to MR 50616791 0003/154
	DM455M10RT-B54HBB-L (1762*1134*30mm) to DM460M10RT-B54HBB-L (1762*1134*30mm)	MR 50616791 0003/151 to MR 50616791 0003/152
	DM455M10RT-B54HBT (1762*1134*35mm) to DM460M10RT-B54HBT (1762*1134*35mm)	MR 50616791 0003/149 to MR 50616791 0003/150
	DM455M10RT-B54HBT (1762*1134*30mm) to DM460M10RT-B54HBT (1762*1134*30mm)	MR 50616791 0003/147 to MR 50616791 0003/148
	DM455M10RT-B54HBW (1762*1134*35mm) to DM460M10RT-B54HBW (1762*1134*35mm)	MR 50616791 0003/145 to MR 50616791 0003/146
	DM455M10RT-B54HBW (1762*1134*30mm) to DM460M10RT-B54HBW (1762*1134*30mm)	MR 50616791 0003/143 to MR 50616791 0003/144
	DM455M10RT-B54HST (1762*1134*35mm) to DM460M10RT-B54HST (1762*1134*35mm)	MR 50616791 0003/141 to MR 50616791 0003/142
	DM455M10RT-B54HST (1762*1134*30mm) to DM460M10RT-B54HST (1762*1134*30mm)	MR 50616791 0003/139 to MR 50616791 0003/140
	DM455M10RT-B54HSW (1762*1134*35mm) to DM460M10RT-B54HSW (1762*1134*35mm)	MR 50616791 0003/137 to MR 50616791 0003/138
	DM455M10RT-B54HSW (1762*1134*30mm) to DM460M10RT-B54HSW (1762*1134*30mm)	MR 50616791 0003/135 to MR 50616791 0003/136
	DM455M10RT-B54HBB (1762*1134*35mm) to DM460M10RT-B54HBB (1762*1134*35mm)	MR 50616791 0003/133 to MR 50616791 0003/134
	DM455M10RT-B54HBB (1762*1134*30mm) to DM460M10RT-B54HBB (1762*1134*30mm)	MR 50616791 0003/131 to MR 50616791 0003/132



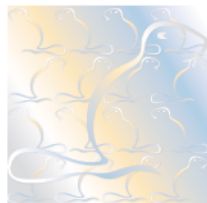
MCS Product Certificate



Annex I to Certificate KIWA00041

PV module manufacturer	PV module model names	MCS Certificate Number
<p>Hengdian Group DMEGC Magnetics Co., Ltd.</p>	<p>DM450M10RT-B54HBT-L (1762*1134*35mm) DM450M10RT-B54HBT-L (1762*1134*30mm) DM450M10RT-B54HBW-L (1762*1134*35mm) DM450M10RT-B54HBW-L (1762*1134*30mm) DM450M10RT-B54HST-L (1762*1134*35mm) DM450M10RT-B54HST-L (1762*1134*30mm) DM450M10RT-B54HSW-L (1762*1134*35mm) DM450M10RT-B54HSW-L (1762*1134*30mm) DM450M10RT-B54HBB-L (1762*1134*35mm) DM450M10RT-B54HBB-L (1762*1134*30mm) DM450M10RT-B54HBT (1762*1134*35mm) DM450M10RT-B54HBT (1762*1134*30mm) DM450M10RT-B54HBW (1762*1134*35mm) DM450M10RT-B54HBW (1762*1134*30mm) DM450M10RT-B54HST (1762*1134*35mm) DM450M10RT-B54HST (1762*1134*30mm) DM450M10RT-B54HSW (1762*1134*35mm) DM450M10RT-B54HSW (1762*1134*30mm) DM450M10RT-B54HBB (1762*1134*35mm) DM450M10RT-B54HBB (1762*1134*30mm)</p>	<p>MR 50616791 0002/718 MR 50616791 0002/717 MR 50616791 0002/716 MR 50616791 0002/715 MR 50616791 0002/714 MR 50616791 0002/713 MR 50616791 0002/712 MR 50616791 0002/711 MR 50616791 0002/710 MR 50616791 0002/709 MR 50616791 0002/708 MR 50616791 0002/707 MR 50616791 0002/706 MR 50616791 0002/705 MR 50616791 0002/704 MR 50616791 0002/703 MR 50616791 0002/702 MR 50616791 0002/701 MR 50616791 0002/700 MR 50616791 0002/699</p>
<p>Hengdian Group DMEGC Magnetics Co., Ltd.</p>	<p>DM425M10RT-G54HBW-L (1762*1134*35mm) to DM455M10RT-G54HBW-L (1762*1134*35mm) DM425M10RT-G54HBW-L (1762*1134*30mm) to DM455M10RT-G54HBW-L (1762*1134*30mm) DM425M10RT-G54HSW-L (1762*1134*35mm) to DM455M10RT-G54HSW-L (1762*1134*35mm) DM425M10RT-G54HSW-L (1762*1134*30mm) to DM455M10RT-G54HSW-L (1762*1134*30mm) DM425M10RT-G54HBB-L (1762*1134*35mm) to DM455M10RT-G54HBB-L (1762*1134*35mm) DM425M10RT-G54HBB-L (1762*1134*30mm) to DM455M10RT-G54HBB-L (1762*1134*30mm) DM425M10RT-G54HBW (1762*1134*35mm) DM425M10RT-G54HBW (1762*1134*30mm) DM425M10RT-G54HSW (1762*1134*35mm) DM425M10RT-G54HSW (1762*1134*30mm) DM425M10RT-G54HSW (1762*1134*35mm) DM425M10RT-G54HSW (1762*1134*30mm) DM425M10RT-G54HBB (1762*1134*35mm) DM425M10RT-G54HBB (1762*1134*30mm) DM425M10RT-G54HBB (1762*1134*35mm) DM425M10RT-G54HBB (1762*1134*30mm)</p>	<p>MR 50616791 0002/662 to MR 50616791 0002/668 MR 50616791 0002/655 to MR 50616791 0002/661 MR 50616791 0002/648 to MR 50616791 0002/654 MR 50616791 0002/641 to MR 50616791 0002/647 MR 50616791 0002/634 to MR 50616791 0002/640 MR 50616791 0002/627 to MR 50616791 0002/633 MR 50616791 0002/620 to MR 50616791 0002/626 MR 50616791 0002/613 to MR 50616791 0002/619 MR 50616791 0002/606 to MR 50616791 0002/612 MR 50616791 0002/599 to MR 50616791 0002/605 MR 50616791 0002/592 to MR 50616791 0002/598 MR 50616791 0002/585 to MR 50616791 0002/591</p>

CERTIFICATE



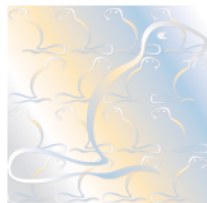
MCS Product Certificate



Annex I to Certificate KIWA00041

CERTIFICATE

PV module manufacturer	PV module model names	MCS Certificate Number
Hengdian Group DMEGC Magnetics Co., Ltd.	DM425M10RT-B54HBS-L (1762*1134*35mm) to DM445M10RT-B54HBS-L (1762*1134*35mm)	
	DM425M10RT-B54HBS-L (1762*1134*30mm) to DM445M10RT-B54HBS-L (1762*1134*30mm)	
	DM425M10RT-B54HSS-L (1762*1134*35mm) to DM445M10RT-B54HSS-L (1762*1134*35mm)	MR 50616791 0001/920 to MR 50616791 0001/924
	DM425M10RT-B54HSS-L (1762*1134*30mm) to DM445M10RT-B54HSS-L (1762*1134*30mm)	MR 50616791 0001/915 to MR 50616791 0001/919
	DM425M10RT-B54HBT-L (1762*1134*35mm) to DM445M10RT-B54HBT-L (1762*1134*35mm)	MR 50616791 0001/910 to MR 50616791 0001/914
	DM425M10RT-B54HBT-L (1762*1134*30mm) to DM445M10RT-B54HBT-L (1762*1134*30mm)	MR 50616791 0001/905 to MR 50616791 0001/909
	DM425M10RT-B54HBT-L (1762*1134*35mm) to DM445M10RT-B54HBT-L (1762*1134*35mm)	MR 50616791 0001/900 to MR 50616791 0001/904
	DM425M10RT-B54HBW-L (1762*1134*35mm) to DM445M10RT-B54HBW-L (1762*1134*35mm)	MR 50616791 0001/895 to MR 50616791 0001/899
	DM425M10RT-B54HBW-L (1762*1134*30mm) to DM445M10RT-B54HBW-L (1762*1134*30mm)	MR 50616791 0001/890 to MR 50616791 0001/894
	DM425M10RT-B54HST-L (1762*1134*35mm) to DM445M10RT-B54HST-L (1762*1134*35mm)	MR 50616791 0001/885 to MR 50616791 0001/889
	DM425M10RT-B54HST-L (1762*1134*30mm) to DM445M10RT-B54HST-L (1762*1134*30mm)	MR 50616791 0001/880 to MR 50616791 0001/884
	DM425M10RT-B54HSW-L (1762*1134*35mm) to DM445M10RT-B54HSW-L (1762*1134*35mm)	MR 50616791 0001/875 to MR 50616791 0001/879
	DM425M10RT-B54HSW-L (1762*1134*30mm) to DM445M10RT-B54HSW-L (1762*1134*30mm)	MR 50616791 0001/870 to MR 50616791 0001/874
	DM425M10RT-B54HBB-L (1762*1134*35mm) to DM445M10RT-B54HBB-L (1762*1134*35mm)	MR 50616791 0001/865 to MR 50616791 0001/869
	DM425M10RT-B54HBB-L (1762*1134*30mm) to DM445M10RT-B54HBB-L (1762*1134*30mm)	MR 50616791 0001/860 to MR 50616791 0001/864
	DM425M10RT-B54HBB-L (1762*1134*30mm) to DM445M10RT-B54HBB-L (1762*1134*30mm)	MR 50616791 0001/855 to MR 50616791 0001/859



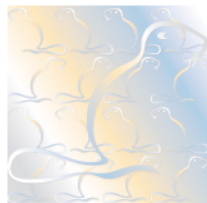
MCS Product Certificate



Annex I to Certificate KIWA00041

PV module manufacturer	PV module model names	MCS Certificate Number	
<p>Hengdian Group DMEGC Magnetics Co., Ltd.</p>	DM425M10RT-B54HBS (1762*1134*35mm) to DM445M10RT-B54HBS (1762*1134*35mm)		
	DM425M10RT-B54HBS (1762*1134*30mm) to DM445M10RT-B54HBS (1762*1134*30mm)		
	DM425M10RT-B54HSS (1762*1134*35mm) to DM445M10RT-B54HSS (1762*1134*35mm)	MR 50616791 0001/850 to MR 50616791 0001/854	
	DM425M10RT-B54HSS (1762*1134*30mm) to DM445M10RT-B54HSS (1762*1134*30mm)	MR 50616791 0001/845 to MR 50616791 0001/849	
	DM425M10RT-B54HBT (1762*1134*35mm) to DM445M10RT-B54HBT (1762*1134*35mm)	MR 50616791 0001/840 to MR 50616791 0001/844	
	DM425M10RT-B54HBT (1762*1134*30mm) to DM445M10RT-B54HBT (1762*1134*30mm)	MR 50616791 0001/835 to MR 50616791 0001/839	
	DM425M10RT-B54HBW (1762*1134*35mm) to DM445M10RT-B54HBW (1762*1134*35mm)	MR 50616791 0001/825 to MR 50616791 0001/829	
	DM425M10RT-B54HBW (1762*1134*30mm) to DM445M10RT-B54HBW (1762*1134*30mm)	MR 50616791 0001/820 to MR 50616791 0001/824	
	DM425M10RT-B54HST (1762*1134*35mm) to DM445M10RT-B54HST (1762*1134*35mm)	MR 50616791 0001/815 to MR 50616791 0001/819	
	DM425M10RT-B54HST (1762*1134*30mm) to DM445M10RT-B54HST (1762*1134*30mm)	MR 50616791 0001/810 to MR 50616791 0001/814	
	DM425M10RT-B54HSW (1762*1134*35mm) to DM445M10RT-B54HSW (1762*1134*35mm)	MR 50616791 0001/805 to MR 50616791 0001/809	
	DM425M10RT-B54HSW (1762*1134*30mm) to DM445M10RT-B54HSW (1762*1134*30mm)	MR 50616791 0001/800 to MR 50616791 0001/804	
	DM425M10RT-B54HSW (1762*1134*35mm) to DM445M10RT-B54HSW (1762*1134*35mm)	MR 50616791 0001/795 to MR 50616791 0001/799	
	DM425M10RT-B54HSW (1762*1134*30mm) to DM445M10RT-B54HSW (1762*1134*30mm)	MR 50616791 0001/790 to MR 50616791 0001/794	
	DM425M10RT-B54HBB (1762*1134*35mm) to DM445M10RT-B54HBB (1762*1134*35mm)	MR 50616791 0001/785 to MR 50616791 0001/789	
	<p>Hengdian Group DMEGC Magnetics Co., Ltd.</p>	DM425M10RT-54HBW-V to DM455M10RT-54HBW-V	BABT 8586-280-425W to BABT 8586-280-455W
		DM425M10RT-54HSW-V to DM455M10RT-54HSW-V	BABT 8586-279-425W to BABT 8586-279-455W
DM425M10RT-54HBB-V to DM455M10RT-54HBB-V		BABT 8586-278-425W to BABT 8586-278-455W	
DM425M10RT-54HBW to DM455M10RT-54HBW		BABT 8586-274-425W to BABT 8586-274-455W	
DM425M10RT-54HSW to DM455M10RT-54HSW		BABT 8586-273-425W to BABT 8586-273-455W	
DM425M10RT-54HBB to DM455M10RT-54HBB		BABT 8586-272-425W to BABT 8586-272-455W	

CERTIFICATE



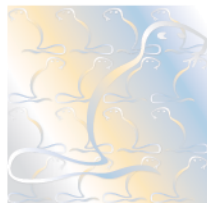
MCS Product Certificate



Annex I to Certificate KIWA00041

CERTIFICATE

PV module manufacturer	PV module model names	MCS Certificate Number
<p style="text-align: center;">Hengdian Group DMEGC Magnetics Co., Ltd.</p>	DM505M10RT-B60HBB (1950*1134*35mm) to DM515M10RT-B60HBB (1950*1134*35mm)	
	DM505M10RT-B60HBB (1950*1134*30mm) to DM515M10RT-B60HBB (1950*1134*30mm)	
	DM505M10RT-B60HBT (1950*1134*35mm) to DM515M10RT-B60HBT (1950*1134*35mm)	
	DM505M10RT-B60HBT (1950*1134*30mm) to DM515M10RT-B60HBT (1950*1134*30mm)	MR 50616791 0003/198 to MR 50616791 0003/200
	DM505M10RT-B60HST (1950*1134*35mm) to DM515M10RT-B60HST (1950*1134*35mm)	MR 50616791 0003/195 to MR 50616791 0003/197
	DM505M10RT-B60HST (1950*1134*30mm) to DM515M10RT-B60HST (1950*1134*30mm)	MR 50616791 0003/192 to MR 50616791 0003/194
	DM505M10RT-B60HBW (1950*1134*35mm) to DM515M10RT-B60HBW (1950*1134*35mm)	MR 50616791 0003/189 to MR 50616791 0003/191
	DM505M10RT-B60HBW (1950*1134*30mm) to DM515M10RT-B60HBW (1950*1134*30mm)	MR 50616791 0003/186 to MR 50616791 0003/188
	DM505M10RT-B60HSW (1950*1134*35mm) to DM515M10RT-B60HSW (1950*1134*35mm)	MR 50616791 0003/183 to MR 50616791 0003/185
	DM505M10RT-B60HSW (1950*1134*30mm) to DM515M10RT-B60HSW (1950*1134*30mm)	MR 50616791 0003/180 to MR 50616791 0003/182
	DM505M10RT-B60HSW (1950*1134*35mm) to DM515M10RT-B60HSW (1950*1134*35mm)	MR 50616791 0003/177 to MR 50616791 0003/179
	DM505M10RT-B60HSW (1950*1134*30mm) to DM515M10RT-B60HSW (1950*1134*30mm)	MR 50616791 0003/174 to MR 50616791 0003/176
	DM475M10RT-B60HBB (1950*1134*35mm) to DM500M10RT-B60HBB (1950*1134*35mm)	MR 50616791 0003/171 to MR 50616791 0003/173
	DM475M10RT-B60HBB (1950*1134*30mm) to DM500M10RT-B60HBB (1950*1134*30mm)	MR 50616791 0002/055 to MR 50616791 0002/060
	DM475M10RT-B60HBT (1950*1134*35mm) to DM500M10RT-B60HBT (1950*1134*35mm)	MR 50616791 0002/049 to MR 50616791 0002/054
	DM475M10RT-B60HBT (1950*1134*30mm) to DM500M10RT-B60HBT (1950*1134*30mm)	MR 50616791 0002/043 to MR 50616791 0002/048
	DM475M10RT-B60HST (1950*1134*35mm) to DM500M10RT-B60HST (1950*1134*35mm)	MR 50616791 0002/037 to MR 50616791 0002/042
	DM475M10RT-B60HST (1950*1134*30mm) to DM500M10RT-B60HST (1950*1134*30mm)	MR 50616791 0002/031 to MR 50616791 0002/036
	DM475M10RT-B60HST (1950*1134*35mm) to DM500M10RT-B60HST (1950*1134*35mm)	MR 50616791 0002/025 to MR 50616791 0002/030
	DM475M10RT-B60HST (1950*1134*30mm) to DM500M10RT-B60HST (1950*1134*30mm)	MR 50616791 0002/019 to MR 50616791 0002/024
	DM475M10RT-B60HBW (1950*1134*35mm) to DM500M10RT-B60HBW (1950*1134*35mm)	MR 50616791 0002/013 to MR 50616791 0002/018
	DM475M10RT-B60HBW (1950*1134*30mm) to DM500M10RT-B60HBW (1950*1134*30mm)	MR 50616791 0002/007 to MR 50616791 0002/012
	DM475M10RT-B60HSW (1950*1134*35mm) to DM500M10RT-B60HSW (1950*1134*35mm)	MR 50616791 0002/001 to MR 50616791 0002/006
	DM480M10RT-60HBW to DM505M10RT-60HBW	BABT8586-289-480W to BABT8586-289-505W
DM480M10RT-60HSW to DM505M10RT-60HSW	BABT8586-288-480W to BABT8586-288-505W	
DM480M10RT-60HBB to DM505M10RT-60HBB	BABT8586-287-480W to BABT8586-287-505W	
<p style="text-align: center;">UKSOL</p>	UKS-S120-M10H-435 to UKS-S120-M10H-455	BABT8851-109-435W to BABT8851-109-455W
	UKS-S120-M10H-420-BG to UKS-S120-M10H-455-BG	BABT8851-110-420W to BABT8851-110-455W
	UKS-S120/M10N-465BG to UKS-S120/M10N-485BG	BABT8851-134-465W to BABT8851-134-485W
	UKS-S120/M10N-465 to UKS-S120/M10N-485	BABT8851-137-465W to BABT8851-137-485W



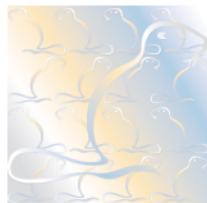
MCS Product Certificate



Annex I to Certificate KIWA00041

PV module manufacturer	PV module model names	MCS Certificate Number
Das Solar Co Ltd	DAS-DH108NA-400 to DAS-DH108NA-450 DAS-DH108PA-385 to DAS-DH108PA-425 DAS-DH108ND-435 to DAS-DH108ND-465	BABT8843-112-400W to BABT8843-112-450W BABT8843-110-385W to BABT8843-110-425W BABT8843-117-435W to BABT8843-117-465W
Das Solar Co Ltd	DAS-DH120ND-485 to DAS-DH120ND-515 DAS-DH120PB-620 to DAS-DH120PB-565 DAS-DH120NC-630 to DAS-DH120NC-650 DAS-DH120P6-340 to DAS-DH120P6-385	BABT8843-121-485W to BABT8843-121-515W BABT8843-115-620W to BABT8843-115-565W BABT8843-123-630W to BABT8843-123-650W BABT8843-108-340W to BABT8843-108-385W
Zhejiang Aiko Solar Technology Co., Ltd.	AIKO-A415-MAH54Mb (1757×1134×30) to AIKO-A470-MAH54Mb (1757×1134×30) AIKO-A415-MAH54Mb (1757×1134×35) to AIKO-A470-MAH54Mb (1757×1134×35) AIKO-A415-MAH54Mb (1757×1134×40) to AIKO-A470-MAH54Mb (1757×1134×40) AIKO-A415-MAH54Mw (1757×1134×30) to AIKO-A475-MAH54Mw (1757×1134×30) AIKO-A415-MAH54Mw (1757×1134×35) to AIKO-A475-MAH54Mw (1757×1134×35) AIKO-A415-MAH54Mw (1757×1134×40) to AIKO-A475-MAH54Mw (1757×1134×40)	MR 50640718 0001/667 to MR 50640718 0001/678 MR 50640718 0001/679 to MR 50640718 0001/690 MR 50640718 0001/691 to MR 50640718 0001/702 MR 50640718 0001/289 to MR 50640718 0001/301 MR 50640718 0001/302 to MR 50640718 0001/314 MR 50640718 0001/315 to MR 50640718 0001/327
Zhejiang Aiko Solar Technology Co., Ltd.	AIKO-A440-MAH54Db (1757×1134×30) to AIKO-A465-MAH54Db (1757×1134×30) AIKO-A440-MAH54Db (1757×1134×35) to AIKO-A465-MAH54Db (1757×1134×35) AIKO-A440-MAH54Db (1757×1134×40) to AIKO-A465-MAH54Db (1757×1134×40) AIKO-A440-MAH54Dw (1757×1134×30) to AIKO-A470-MAH54Dw (1757×1134×30) AIKO-A440-MAH54Dw (1757×1134×35) to AIKO-A470-MAH54Dw (1757×1134×35) AIKO-A440-MAH54Dw (1757×1134×40) to AIKO-A470-MAH54Dw (1757×1134×40)	MR 50640718 0001/1141 to MR 50640718 0001/1146 MR 50640718 0001/1147 to MR 50640718 0001/1152 MR 50640718 0001/1153 to MR 50640718 0001/1158 MR 50640718 0001/1015 to MR 50640718 0001/1021 MR 50640718 0001/1022 to MR 50640718 0001/1028 MR 50640718 0001/1029 to MR 50640718 0001/1035

CERTIFICATE



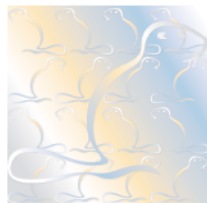
MCS Product Certificate



Annex I to Certificate KIWA00041

PV module manufacturer	PV module model names	MCS Certificate Number
Chint New Energy Technology Co., Ltd.	CHSM54RNs(DG)/F-BH-430 (1762*1134*30mm) to CHSM54RNs(DG)/F-BH-460 (1762*1134*30mm)	MR 50626627 0001/255 to MR 50626627 0001/261
	CHSM54RNs(DG)(BLH)/F-BH-425 (1762*1134*30mm) to CHSM54RNs(DG)(BLH)/F-BH-455 (1762*1134*30mm)	MR 50626627 0001/262 to MR 50626627 0001/268
	CHSM54RNs(DGT)(BLH)/F-BH-425 (1762*1134*30mm) to CHSM54RNs(DGT)(BLH)/F-BH-460 (1762*1134*30mm)	MR 50626627 0001/283 to MR 50626627 0001/290
	CHSM54RNs(DGT)/F-BH-430 (1762*1134*30mm) to CHSM54RNs(DGT)/F-BH-460 (1762*1134*30mm)	MR 50626627 0001/291 to MR 50626627 0001/297
	CHSM54RNs(DGT)/F-HC-430 (1762*1134*30mm) to CHSM54RNs(DGT)/F-HC-460 (1762*1134*30mm)	MR 50626627 0001/298 to MR 50626627 0001/304
	CHSM54RNs-HC-430 (1762*1134*30mm) to CHSM54RNs-HC-465 (1762*1134*30mm)	MR 50626627 0001/507 to MR 50626627 0001/514
	CHSM54RNs(BLH)-HC-425 (1762*1134*30mm) to CHSM54RNs(BLH)-HC-455 (1762*1134*30mm)	MR 50626627 0001/515 to MR 50626627 0001/521
	CHSM54RNs(LV)-HC-430 (1762*1134*30mm) to CHSM54RNs(LV)-HC-465 (1762*1134*30mm)	MR 50626627 0001/588 to MR 50626627 0001/595
	CHSM54RNs(BL)-HC-425 (1762*1134*30mm) to CHSM54RNs(BL)-HC-455 (1762*1134*30mm)	MR 50626627 0001/596 to MR 50626627 0001/602
	CHSM54RNs(BLH)-HC-425(under STC)(1762x1134x35mm) to CHSM54RNs(BLH)-HC-455(under STC)(1762x1134x35mm)	MR 50654153 0001/1408 to MR 50654153 0001/1414
	CHSM54RNs(BLH)-HC-425(under STC)(1762x1134x30mm) to CHSM54RNs(BLH)-HC-455(under STC)(1762x1134x30mm)	MR 50654153 0001/1415 to MR 50654153 0001/1421
	CHSM54RNs(BL)-HC-425(under STC)(1762x1134x35mm) to CHSM54RNs(BL)-HC-455(under STC)(1762x1134x35mm)	MR 50654153 0001/1837 to MR 50654153 0001/1843
	CHSM54RNs(BL)-HC-425(under STC)(1762x1134x30mm) to CHSM54RNs(BL)-HC-455(under STC)(1762x1134x30mm)	MR 50654153 0001/1844 to MR 50654153 0001/1850
	CHSM54RNs(LV)-HC-430(under STC)(1762x1134x35mm) to CHSM54RNs(LV)-HC-465(under STC)(1762x1134x35mm)	MR 50654153 0001/1851 to MR 50654153 0001/1858
	CHSM54RNs(LV)-HC-430(under STC)(1762x1134x30mm) to CHSM54RNs(LV)-HC-465(under STC)(1762x1134x30mm)	MR 50654153 0001/1859 to MR 50654153 0001/1866
	CHSM54RNs(DG)/F-BH-430(under STC)(1762x1134x35mm) to CHSM54RNs(DG)/F-BH-460(under STC)(1762x1134x35mm)	MR 50654153 0001/725 to MR 50654153 0001/731
	CHSM54RNs(DG)/F-BH-475(under BNPI)(1762x1134x35mm) to CHSM54RNs(DG)/F-BH-505(under BNPI)(1762x1134x35mm)	MR 50654153 0001/732 to MR 50654153 0001/738
	CHSM54RNs(DG)/F-BH-430(under STC)(1762x1134x30mm) to CHSM54RNs(DG)/F-BH-460(under STC)(1762x1134x30mm)	MR 50654153 0001/739 to MR 50654153 0001/745
	CHSM54RNs(DG)/F-BH-475(under BNPI)(1762x1134x30mm) to CHSM54RNs(DG)/F-BH-505(under BNPI)(1762x1134x30mm)	MR 50654153 0001/746 to MR 50654153 0001/752
	CHSM54RNs(DG)/F-HC-430(under STC)(1762x1134x35mm) to CHSM54RNs(DG)/F-HC-460(under STC)(1762x1134x35mm)	MR 50654153 0001/753 to MR 50654153 0001/759
	CHSM54RNs(DG)/F-HC-430(under STC)(1762x1134x30mm) to CHSM54RNs(DG)/F-HC-460(under STC)(1762x1134x30mm)	MR 50654153 0001/760 to MR 50654153 0001/766

CERTIFICATE



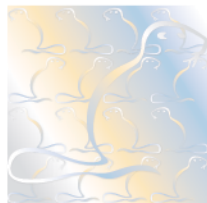
MCS Product Certificate



Annex I to Certificate KIWA00041

PV module manufacturer	PV module model names	MCS Certificate Number
Chint New Energy Technology Co., Ltd.	CHSM54RNs(DG)(BLH)/F-BH-425(under STC)(1762x1134x35mm) to	MR 50654153 0001/767 to MR 50654153 0001/773
	CHSM54RNs(DG)(BLH)/F-BH-455(under STC)(1762x1134x35mm)	MR 50654153 0001/774 to MR 50654153 0001/780
	CHSM54RNs(DG)(BLH)/F-BH-465(under BNPI)(1762x1134x35mm) to	MR 50654153 0001/781 to MR 50654153 0001/787
	CHSM54RNs(DG)(BLH)/F-BH-495(under BNPI)(1762x1134x35mm)	MR 50654153 0001/788 to MR 50654153 0001/794
	CHSM54RNs(DG)(BLH)/F-BH-425(under STC)(1762x1134x30mm) to	MR 50654153 0001/795 to MR 50654153 0001/801
	CHSM54RNs(DG)(BLH)/F-BH-455(under STC)(1762x1134x30mm)	MR 50654153 0001/802 to MR 50654153 0001/808
	CHSM54RNs(DG)(BLH)/F-BH-465(under BNPI)(1762x1134x30mm) to	MR 50654153 0001/809 to MR 50654153 0001/815
	CHSM54RNs(DG)(BLH)/F-BH-495(under BNPI)(1762x1134x30mm)	MR 50654153 0001/816 to MR 50654153 0001/822
	CHSM54RNs(DGT)(BLH)/F-BH-425(under STC)(1762x1134x35mm) to	MR 50654153 0001/823 to MR 50654153 0001/828
	CHSM54RNs(DGT)(BLH)/F-BH-455(under STC)(1762x1134x35mm)	MR 50654153 0001/829 to MR 50654153 0001/834
	CHSM54RNs(DGT)(BLH)/F-BH-470(under BNPI)(1762x1134x35mm) to	MR 50654153 0001/835 to MR 50654153 0001/840
	CHSM54RNs(DGT)(BLH)/F-BH-425(under STC)(1762x1134x30mm) to	MR 50654153 0001/841 to MR 50654153 0001/846
	CHSM54RNs(DGT)(BLH)/F-BH-455(under STC)(1762x1134x30mm)	AS-S108-M10H-390 to AS-S108-M10H-410
	CHSM54RNs(DGT)(BLH)/F-BH-470(under BNPI)(1762x1134x30mm) to	AS-S108-M10H-380-BG to AS-S108-M10H-405-BG
	CHSM54RNs(DGT)(BLH)/F-BH-500(under BNPI)(1762x1134x30mm)	AS-S108/M10N-415-BG to AS-S108/M10N-445-BG
	CHSM54RNs(DGT)(BLH)/F-BH-430(under STC)(1762x1134x35mm) to	AS-S108/M10N-415-BG to AS-S108/M10N-435-BG
	CHSM54RNs(DGT)(BLH)/F-BH-455(under STC)(1762x1134x35mm)	AS-S108/M10N-440 to AS-S108/M10N-445
	CHSM54RNs(DGT)(BLH)/F-BH-475(under BNPI)(1762x1134x35mm) to	BAPT8850-103-390W to BAPT8850-103-410W
	CHSM54RNs(DGT)(BLH)/F-BH-500(under BNPI)(1762x1134x35mm)	BAPT8850-104-380W to BAPT8850-104-405W
	CHSM54RNs(DGT)(BLH)/F-BH-430(under STC)(1762x1134x30mm) to	BAPT8850-135-415W to BAPT8850-135-445W
CHSM54RNs(DGT)(BLH)/F-BH-455(under STC)(1762x1134x30mm)	BAPT8850-137-415W to BAPT8850-137-435W	
CHSM54RNs(DGT)(BLH)/F-BH-475(under BNPI)(1762x1134x30mm) to	BAPT8850-138-440W to BAPT8850-138-445W	
CHSM54RNs(DGT)(BLH)/F-BH-500(under BNPI)(1762x1134x30mm)		

CERTIFICATE



MCS Product Certificate

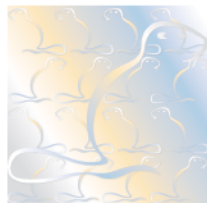


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NOT MCS 005 CERTIFICATED CURRENTLY

PV module manufacturer	PV module model names	MCS Certificate Number
Hanwha Q CELLS GmbH	Q.PEAK DUO BLK ML-G9 365 Q.PEAK DUO BLK ML-G9+ 365	MCS PV0062/528 MCS PV0062/533
Shanghai JA Solar Tech Co Ltd.	JAM60S10-xxx/PR (xxx=315 to 345 in 5W steps) JAM60S10-xxx/MR (xxx=320 to 340 in 5W steps)	BABT 8515-152 BABT 8515-165
Shanghai JA Solar Tech Co Ltd.	JAM60S17-xxx/PR (xxx=315 to 345 in 5W steps) JAM60S17-xxx/PR (where xxx=315-325 in 5W steps) JAM60S17-xxx/MR (xxx=320 to 340 in 5W steps) JAM60S17-xxx/MR (where xxx=315-325 in 5W steps)	BABT 8515-163 BABT 8515-163-R1 BABT 8515-164 BABT 8515-164-R1
Sunpower Corp.	SPR-MAX2-340 1690x1046x40 SPR-MAX2-350 1690x1046x40 SPR-MAX2-360 1690x1046x40 SPR-MAX3-400 1690x1046x40 SPR-MAX3-395 1690x1046x40 SPR-MAX3-370 1690x1046x40 SPR-MAX3-390 1690x1046x40	MCS PV0102/92 MCS PV0102/93 MCS PV0102/94 MCS PV0102/100 MCS PV0102/105 MCS PV0102/98 MCS PV0102/99
Canadian Solar	CS3L-320P CS3L-325P CS3L-330P CS3L-335P CS3L-340P CS3L-345P CS3L-350P CS3L-355P CS3L-360P CS3L-365P CS3L-370P CS3L-375P CS3L-380P CS3L-xxxMS	BABT8767-11-03-320W BABT8767-11-03-325W BABT8767-11-03-330W BABT8767-11-03-335W BABT8767-11-03-340W BABT8767-11-03-345W BABT8767-11-03-350W BABT8767-11-03-355W BABT8767-11-03-360W BABT8767-11-03-365W BABT8767-11-03-370W BABT8767-11-03-375W BABT8767-11-03-380W BABT8767-36
European Energy World, S.L.	MEPVxxx BLACK (xxx = 240-310W in 5W steps)	BABT 8764-02
Jinko Solar Co., Ltd.	JKM275M-60H 1684x1002x35 - JKM335M-60H 1684x1002x35 JKM275M-60HL 1684x1002x35 - JKM335M-60HL 1684x1002x35 JKM275M-60HB 1684x1002x35 - JKM335M-60HB 1684x1002x35 JKM275M-60H-V 1684x1002x35 - JKM335M-60H-V 1684x1002x35 JKM275M-60HB-V 1684x1002x35 - JKM335M-60HB-V 1684x1002x35 JKM340M-60H 1684x1002x35 - JKM350M-60H 1684x1002x35 JKM340M-60H-V 1684x1002x35 - JKM350M-60H-V 1684x1002x35 JKMS270M-60HB-MX3 1684x1002x35 - JKMS340M-60HB-MX3 1684x1002x35	MCS PV0163/3672 to MCS PV0163/3684 MCS PV0163/3685 to MCS PV0163/3697 MCS PV0163/3745 to MCS PV0163/3757 MCS PV0163/3896 to MCS PV0163/3908 MCS PV0163/3935 to MCS PV0163/3947 MCS PV0163/4054 to MCS PV0163/4056 MCS PV0163/4057 to MCS PV0163/4059 MCS PV0163/4220 to MCS PV0163/4234
Jinko Solar Co., Ltd.	JKM320M-6TL3-B 1692x1029x30 JKM325M-6TL3-B 1692x1029x30 JKM330M-6TL3-B 1692x1029x30 JKM335M-6TL3-B 1692x1029x30 JKM340M-6TL3-B 1692x1029x30 JKM345M-6TL3-B 1692x1029x30 JKM350M-6TL3-B 1692x1029x30 JKM355M-6TL3-B 1692x1029x30 JKM360M-6TL3-B 1692x1029x30 JKM365M-6TL3-B 1692x1029x30 JKM335N-6TL3-V 1692x1029x30 to JKM365N-6TL3-V 1692x1029x30 JKM320N-6TL3-B-V 1692x1029x30 to JKM365N-6TL3-B-V 1692x1029x30 JKM335N-6TL3 1692x1029x30 to JKM375N-6TL3 1692x1029x30 JKM320N-6TL3-B 1692x1029x30 to JKM365N-6TL3-B 1692x1029x30	MCS PV0163/4667 MCS PV0163/4668 MCS PV0163/4669 MCS PV0163/4670 MCS PV0163/4671 MCS PV0163/4672 MCS PV0163/4673 MCS PV0163/4674 MCS PV0163/4675 MCS PV0163/4676 MCS PV0163/4569 to MCS PV0163/4575 MCS PV0163/4559 to MCS PV0163/4568 MCS PV0163/4352 to MCS PV0163/4360 MCS PV0163/4342 to MCS PV0163/4351

CERTIFICATE



MCS Product Certificate

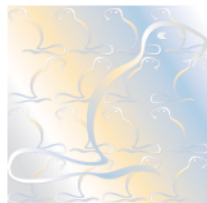


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PV module manufacturer	PV module model names	MCS Certificate Number
LG Electronics Inc	LG365Q1C-V5 LG370Q1C-V5 LG375Q1C-V5 LG340Q1C-V5 LG345Q1C-V5 LG380Q1C-V5 LG350N1C-V5 LG355N1C-V5 LG315N1W-V5 LG320N1W-V5 LG325N1W-V5 LG330N1W-V5 LG335N1W-V5 LG340N1W-V5 LG315N1K-V5 LG320N1K-V5 LG325N1K-V5 LG330N1K-V5 LG335N1K-V5 LG340N1K-V5 LG345N1K-V5 LG350N1K-V5 LG355N1K-V5	BSI KM 564573/87/6 BSI KM 564573/87/7 BSI KM 564573/87/8 BSI KM 564573/88/1 BSI KM 564573/88/2 BSI KM 564573/88/3 BSI KM 564573/76/19 BSI KM 564573/76/13 BSI KM 564573/85/1 BSI KM 564573/85/2 BSI KM 564573/85/3 BSI KM 564573/85/4 BSI KM 564573/85/5 BSI KM 564573/85/6 BSI KM 564573/86/1 BSI KM 564573/86/2 BSI KM 564573/86/3 BSI KM 564573/86/4 BSI KM 564573/86/5 BSI KM 564573/86/6 BSI KM 564573/86/7 BSI KM 564573/86/8 BSI KM 564573/86/9

CERTIFICATE



MCS Product Certificate

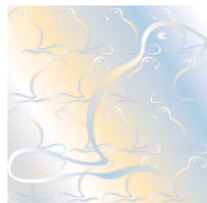


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PV module manufacturer	PV module model names	MCS Certificate Number
REC Solar Pte Ltd	REC295NP - REC330NP	INT PV 21916/184 to INT PV 21916/191
REC Solar Pte Ltd	REC340AA - REC370AA REC340AA Black - REC370AA Black	INT PV 21916/192 to INT PV 21916/198 INT PV 21916/199 to INT PV 21916/205
Sapphire Solar Ltd	SSxxxM/60 (where xxx = 210W to 310W in increments of 5W)	BBA 0199/45 to BBA 0199/65
WuXi Suntech Power Co Ltd	STP300S-20/Wfh STP305S-20/Wfh	BBA 0198/34 BBA 0198/35 for both certification was 10/08/2018 - 18/08/2021
WuXi Suntech Power Co Ltd	STP345S-B60/Wnh STP375S-B60/Wnh STP380S-B60/Wnh STP385S-B60/Wnh STP375S-B60/Wnhm STP380S-B60/Wnhm STP385S-B60/Wnhm STP345S-B60/Wnhb STP350S-B60/Wnhb STP355S-B60/Wnhb STP360S-B60/Wnhb STP365S-B60/Wnhb STP370S-B60/Wnhb STP375S-B60/Wnhb STP380S-B60/Wnhb STP385S-B60/Wnhb	BBA 0198/299 BBA 0198/365 BBA 0198/366 BBA 0198/367 BBA 0198/368 BBA 0198/369 BBA 0198/370 BBA 0198/305 BBA 0198/306 BBA 0198/307 BBA 0198/308 BBA 0198/309 BBA 0198/310 BBA 0198/371 BBA 0198/372 BBA 0198/373
WuXi Suntech Power Co Ltd	STP390S-C54/Umh STP395S-C54/Umh STP400S-C54/Umh STP405S-C54/Umh STP410S-C54/Umh STP390S-C54/Umhb STP395S-C54/Umhb STP400S-C54/Umhb STP405S-C54/Umhb STP410S-C54/Umhb STP390S-C54/Umhm STP395S-C54/Umhm STP400S-C54/Umhm STP405S-C54/Umhm STP410S-C54/Umhm STP415S-C54/Umhm STP420S-C54/Umhm STP425S-C54/Umhm STP430S-C54/Umhm STP435S-C54/Umhm STP415S-C54/Umhb STP420S-C54/Umhb STP425S-C54/Umhb STP430S-C54/Umhb STP435S-C54/Umhb STP405S-C54/Nmhm+ STP410S-C54/Nmhm+ STP415S-C54/Nmhm+ STP420S-C54/Nmhm+ STP425S-C54/Nmhm+ STP430S-C54/Nmhm+ STP435S-C54/Nmhm+ STP405S-C54/Nmhb+ STP410S-C54/Nmhb+ STP415S-C54/Nmhb+ STP420S-C54/Nmhb+ STP425S-C54/Nmhb+ STP430S-C54/Nmhb+ STP435S-C54/Nmhb+ STP415S-C54/Nshb STP420S-C54/Nshb STP425S-C54/Nshb STP430S-C54/Nshb STP435S-C54/Nshb	BBA 0198/485 BBA 0198/486 BBA 0198/487 BBA 0198/488 BBA 0198/489 BBA 0198/490 BBA 0198/491 BBA 0198/492 BBA 0198/493 BBA 0198/494 BBA 0198/495 BBA 0198/496 BBA 0198/497 BBA 0198/498 BBA 0198/499 BBA 0198/509 BBA 0198/510 BBA 0198/511 BBA 0198/512 BBA 0198/513 BBA 0198/514 BBA 0198/515 BBA 0198/516 BBA 0198/517 BBA 0198/518 BBA 0198/519 BBA 0198/520 BBA 0198/521 BBA 0198/522 BBA 0198/523 BBA 0198/524 BBA 0198/525 BBA 0198/526 BBA 0198/527 BBA 0198/528 BBA 0198/529 BBA 0198/530 BBA 0198/531 BBA 0198/532 BBA 0198/570 BBA 0198/571 BBA 0198/572 BBA 0198/573 BBA 0198/574 BBA 0198/575 BBA 0198/576 BBA 0198/577 BBA 0198/578 BBA 0198/579

CERTIFICATE



MCS Product Certificate

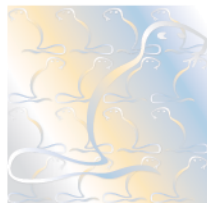


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PV module manufacturer	PV module model names	MCS Certificate Number
Trina Solar Co., Ltd.	TSM-395DE09R.08 1762x1134x30 to TSM-440DE09R.08 1762x1134x30 TSM-395DE09R.05 1762x1134x30 to TSM-440DE09R.05 1762x1134x30 TSM-395DE09R.B5 1762x1134x30 to TSM-440DE09R.B5 1762x1134x30 TSM-395DE09R.B8 1762x1134x30 to TSM-440DE09R.B8 1762x1134x30 TSM-395DE09R.W (1762*1134*30mm) to TSM-440DE09R.W (1762*1134*30mm) TSM-395DE09R.08W (1762*1134*30mm) to TSM-440DE09R.08W (1762*1134*30mm) TSM-395DE09R.B5W (1762*1134*30mm) to TSM-440DE09R.B5W (1762*1134*30mm) TSM-395DE09R.B8W (1762*1134*30mm) to TSM-440DE09R.B8W (1762*1134*30mm) TSM-395DE09R.B0W (1762*1134*30mm) to TSM-440DE09R.B0W (1762*1134*30mm)	MCS PV0183/1855 to MCS PV0183/1864 MCS PV0183/1865 to MCS PV0183/1874 MCS PV0183/1887 to MCS PV0183/1896 MCS PV0183/1897 to MCS PV0183/1906 MCS PV0183/1907 to MCS PV0183/1916 MCS PV0183/1917 to MCS PV0183/1926 MCS PV0183/1927 to MCS PV0183/1936 MCS PV0183/1937 to MCS PV0183/1946 MCS PV0183/1947 to MCS PV0183/1956

CERTIFICATE



MCS Product Certificate



Annex II to Certificate KIWA00041

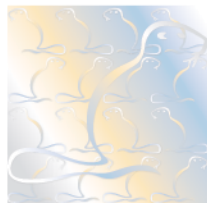
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The following components are common for the product systems that have been assessed and registered by Kiwa Ltd against the provisions of:

MCS 010, MCS 011, MCS 012 issue 3.0

GSE IN-ROOF System - Portrait Version 2012 - KIWA00041/006 IK	
System components	Frames
GSE Flashing Hook	1575/1046
Double Clamp Hxx - Steel - Black - In Roof	1575/1053
Simple Clamp Hxx - Steel - Black - In Roof	1575/1082
GSE self-drilling wood screws 6.5 mm x 60 mm - Black	1580/808
Left Wedge for Simple Clamp - In Roof	1640/992
Right Wedge for Simple Clamp - In Roof	1640/1001
EPDM Cell for Screw - In Roof (25x21 EP. 5mm)	1640/1001/33
Pre-Compressed Seal - 20 x 40mm 5.5m (roll)	1686/1016
Flexalu Waterproof Strip Black 330mm (5 m roll)	
Flexalu Waterproof Strip Black 500mm (5 m roll)	
Flexalu Waterproof Strip Red 500mm (5 m roll)	
Fast Flash waterproof strip Black 370mm (5 m roll)	
Fast Flash waterproof strip Black 370mm (5 m roll)	
Fast Flash waterproof strip Grey 370mm (5 m roll)	
Fast Flash waterproof strip Grey 560mm (5 m roll)	
Fast Flash waterproof strip Tile red 370mm (5 m roll)	
Fast Flash waterproof strip Tile red 560mm (5 m roll)	
Fast Flash waterproof strip Anthracite 370mm (5 m roll)	
Fast Flash waterproof strip Anthracite 560mm (5 m roll)	
Roof-Underlay Screen (75 m ² roll)	
Universal Top Centre Flashing - Black L 1500mm	
Top Junction Flashing - Black L 375mm	
Top Corner Piece Flashing - Black L1400mm (To Join Module to Top Centre Flashings)	
Pop Rivet 4x8 (Fixations Rivet for Top Centre Flashing)	
Lateral Flashing - Black	
Top Left Corner Flashing - Black	
Top Right Corner Flashing - Black	
GSE screw A2 6.4 x 45 mm + EPDM	
Semi-Rigid Bottom Flashing (Leadax)	
Semi-Rigid Bottom Flashing (Fast Flash)	

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MCS Product Certificate



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The following components are common for the product systems that have been assessed and registered by Kiwa Ltd against the provisions of:

MCS 010, MCS 011, MCS 012 issue 3.0

GSE IN-ROOF System - Portrait Version 2020- KIWA00041/008 IK	
System components	Frames
GSE Flashing Hook	1710/1000
Double Clamp Hxx - Steel - Black - In Roof	1710/1005
Simple Clamp Hxx - Steel - Black - In Roof	1710/1020
GSE self-drilling wood screws 6.5 mm x 60 mm - Black	1710/1025
Left Wedge for Simple Clamp - In Roof	1710/1030
Right Wedge for Simple Clamp - In Roof	1710/1040
EPDM Cell for Screw - In Roof (25x21 EP. 5mm)	1710/1050
Pre-Compressed Seal - 20 x 40mm 5.5m (roll)	1710/995
Flexalu Waterproof Strip Black 330mm (5 m roll)	1710/1010
Flexalu Waterproof Strip Black 500mm (5 m roll)	1710/1045
Flexalu Waterproof Strip Red 500mm (5 m roll)	1710/1055
Fast Flash waterproof strip Black 370mm (5 m roll)	
Fast Flash waterproof strip Black 370mm (5 m roll)	
Fast Flash waterproof strip Grey 370mm (5 m roll)	
Fast Flash waterproof strip Grey 560mm (5 m roll)	
Fast Flash waterproof strip Tile red 370mm (5 m roll)	
Fast Flash waterproof strip Tile red 560mm (5 m roll)	
Fast Flash waterproof strip Anthracite 370mm (5 m roll)	
Fast Flash waterproof strip Anthracite 560mm (5 m roll)	
Roof-Underlay Screen (75 m ² roll)	
Universal Top Centre Flashing - Black L 1500mm	
Top Junction Flashing - Black L 375mm	
Top Corner Piece Flashing - Black L1400mm (To Join Module to Top Centre Flashings)	
Pop Rivet 4x8 (Fixations Rivet for Top Centre Flashing)	
Lateral Flashing - Black	
Top Left Corner Flashing - Black	
Top Right Corner Flashing - Black	
GSE screw A2 6.4 x 45 mm + EPDM	
Semi-Rigid Bottom Flashing (Leadax)	
Semi-Rigid Bottom Flashing (Fast Flash)	

CERTIFICATE

MCS Product Certificate



Annex II to Certificate KIWA00041

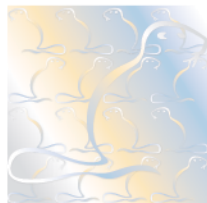
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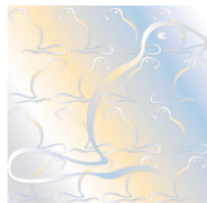
The following components are common for the product systems that have been assessed and registered by Kiwa Ltd against the provisions of:

MCS 010, MCS 011, MCS 012 issue 3.0

GSE IN-ROOF System - Half Portrait Version 2022- KIWA00041/010 IK	
System components	Frames
GSE Flashing Hook	DPo_1650_995
Double Clamp Hxx - Steel - Black - In Roof	DPo_1650_1070
Simple Clamp Hxx - Steel - Black - In Roof	DPo_1650_1100
GSE self-drilling wood screws 6.5 mm x 60 mm - Black	DPo_1650_1135
Left Wedge for Simple Clamp - In Roof	DPo_1650_1140
Right Wedge for Simple Clamp - In Roof	DPo_1650_1145
EPDM Cell for Screw - In Roof (25x21 EP. 5mm)	DPo_1650_1160
Pre-Compressed Seal - 20 x 40mm 5.5m (roll)	DPo_1840_995
Flexalu Waterproof Strip Black 330mm (5 m roll)	DPo_1840_1020
Flexalu Waterproof Strip Black 500mm (5 m roll)	DPo_1840_1030
Flexalu Waterproof Strip Red 500mm (5 m roll)	DPo_1840_1040
Fast Flash waterproof strip Black 370mm (5 m roll)	DPo_1840_1045
Fast Flash waterproof strip Black 370mm (5 m roll)	DPo_1840_1050
Fast Flash waterproof strip Grey 370mm (5 m roll)	DPo_1840_1070
Fast Flash waterproof strip Grey 560mm (5 m roll)	DPo_1840_1090
Fast Flash waterproof strip Tile red 370mm (5 m roll)	DPo_1840_1100
Fast Flash waterproof strip Tile red 560mm (5 m roll)	DPo_1840_1135
Fast Flash waterproof strip Anthracite 370mm (5 m roll)	DPo_2030_995
Fast Flash waterproof strip Anthracite 560mm (5 m roll)	DPo_2030_1040
Roof-Underlay Screen (75 m ² roll)	DPo_2030_1050
Universal Top Centre Flashing - Black L 1500mm	DPo_2030_1055
Top Junction Flashing - Black L 375mm	DPo_2030_1135
Top Corner Piece Flashing - Black L1400mm (To Join Module to Top Centre Flashings)	DPo_2030_1305
Pop Rivet 4x8 (Fixations Rivet for Top Centre Flashing)	
Lateral Flashing - Black	
Top Left Corner Flashing - Black	
Top Right Corner Flashing - Black	
GSE screw A2 6.4 x 45 mm + EPDM	
Semi-Rigid Bottom Flashing (Leadax)	
Semi-Rigid Bottom Flashing (Fast Flash)	

CERTIFICATE





MCS Product Certificate



Annex II to Certificate KIWA00041

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The following components are common for the product systems that have been assessed and registered by Kiwa Ltd against the provisions of:

MCS 010, MCS 011, MCS 012 issue 3.0

GSE IN-ROOF System - Landscape Evolution (half landscape)- KIWA 00041/011 IK

System components	Frames
GSE Flashing Hook	DPa_1690_1090
Double Clamp Hxx - Steel - Black - In Roof	DPa_1725_1090
Simple Clamp Hxx - Steel - Black - In Roof	DPa_1755_1090
Left Wedge for Simple Clamp - In Roof	Dpa_1760_1090
Right Wedge for Simple Clamp - In Roof	DPa_1765_1090
EPDM Cell for Screw - In Roof (25x21 EP. 5mm)	DPa_1800_1090
Pre-Compressed Seal - 20 x 40mm 5.5m (roll)	DPa_1810_1090
Flexalu Waterproof Strip Black 330mm (5 m roll)	DPa_1815_1090
Flexalu Waterproof Strip Black 500mm (5 m roll)	DPa_1990_1090
Flexalu Waterproof Strip Red 500mm (5 m roll)	
Fast Flash waterproof strip Black 370mm (5 m roll)	
Fast Flash waterproof strip Black 370mm (5 m roll)	
Fast Flash waterproof strip Grey 370mm (5 m roll)	
Fast Flash waterproof strip Grey 560mm (5 m roll)	
Fast Flash waterproof strip Tile red 370mm (5 m roll)	
Fast Flash waterproof strip Tile red 560mm (5 m roll)	
Fast Flash waterproof strip Anthracite 370mm (5 m roll)	
Fast Flash waterproof strip Anthracite 560mm (5 m roll)	
Roof-Underlay Screen (75 m ² roll)	
Lateral flashing Landscape	
Landscape Top Left Corner Flashing - Black	
Landscape Top Right Corner Flashing - Black	
GSE self-drilling wood screws 6.5 x 60 - Black	
GSE screw A2 6.4 x 45 mm + EPDM	
In-Roof Landscape Evolution Rail screw and nut	
Landscape Top Central Flashing - Black	
Landscape Top Junction Flashing - Black	
Semi-Rigid Bottom Flashing (Leadax)	
Semi-Rigid Bottom Flashing (Fast Flash)	

CERTIFICATE