

285W MONOCRYSTALLINE IQ-SAFE SERIES SS285M/60



SAPPHIRE SOLAR 285W MONOCRYSTALLINE MODULES WITH TIGO OPTIMISERS

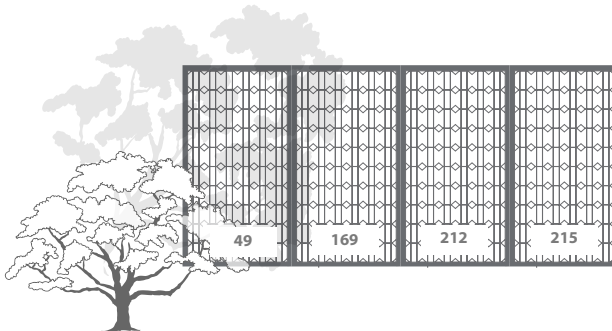
Solar panels work best when there is no shade cast upon them. In fact, a shadow cast on even just part of one solar panel can potentially compromise the output of the whole system.

Shading over your panels can be caused by trees, TV antennae, rooftop airconditioning systems, second storey rooflines or even overhead powerlines.

To overcome any shading issues where they can't be avoided, Sapphire Solar has partnered with Tigo Smart Energy to offer Tigo power optimisers to maximise system performance in real-world conditions.



Tigo[®]

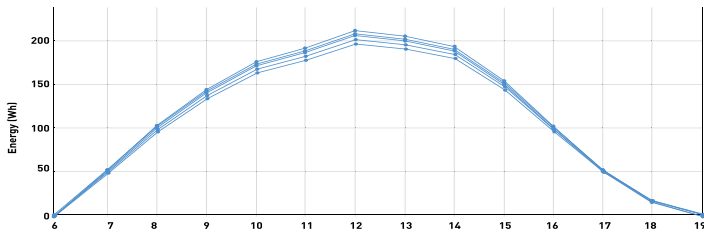


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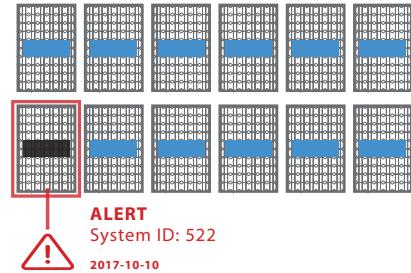
INDIVIDUAL PANEL MONITORING WITH TIGO

Sapphire Solar's iQ-SAFE enable module-level online monitoring system of PV arrays when paired with a TIGO data logger. The cloud based platform provides real-time system data for each panel like voltage, current and power to be easily accessible from any PC or smart device.

Real-time alerts are triggered when strings or modules underperform or fail, empowering owners to perform efficient maintenance and contributing to a lower cost of ownership.



Panel monitoring hourly line graph



SPECIFICATIONS

MECHANICAL CHARACTERISTICS

Solar Cells	Monocrystalline 156mmx156mm (60 cells)
Dimensions	1640 x 992 x 35mm
Weight	19.0kg
Front Glass	3.2mm tempered, antireflective glass
Frame	Anodized/electrophoretic aluminium alloy
Cables	4.0mm ² , symmetrical legths 1.2m
Connector	Genuine MC4
Junction Box	TIGO Optimiser

TEMPERATURE CHARACTERISTICS

Temperature Coefficient Pmax	-0.42%/°C
Temperature Coefficient Voc	-0.32%/°C
Temperature Coefficient Isc	+0.04%/°C
Operating temperature	-40°C +85°C
NOCT (Nominal Operation Cell Temperature)	45°C +/- 2°C

ELECTRICAL CHARACTERISTICS

Rated Power at STC (PmPP)	W	285
Positive Power Tolerance	%	0-3
Maximum Power at STC	W	288
Cell Efficiency	%	21.0-21.2
Minimum Module Efficiency (%)	%	17.5-17.7
Maximum Rated Power Voltage (Vmpp)	V	31.85
Maximum Rated Power Current (Impp)	A	8.95
Open Circuit Voltage (Voc)	V	39.18
Short Circuit Current	A	9.46
Maximum System Voltage	V	1000
Maximum Series Fuse Rating	A	15A
Fire Rating		Class A

PACKAGING CONFIGURATION

Container	40" GP
Pieces per Pallet	28
Pallets per Container	28
Pieces per Container	784

