

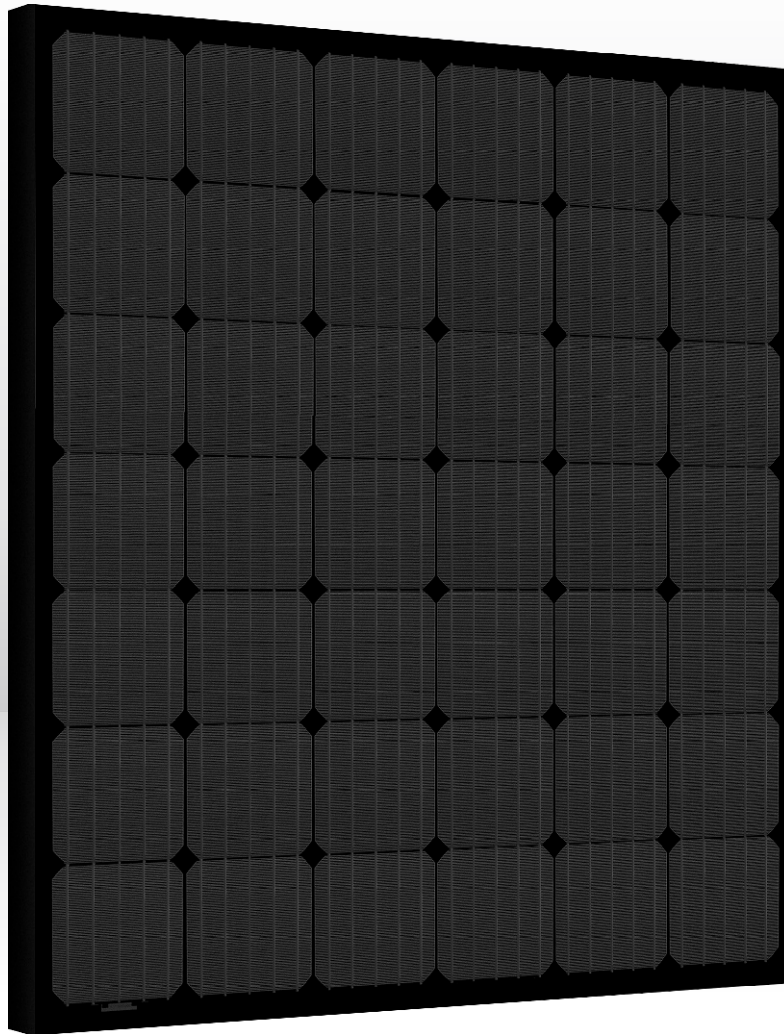
Think **Black** series

PLM-200MA-42 SERIES

High Efficiency PERC Cells



PERLIGHT
smart.black



THE REAL BLACK IN SOLAR SLEEK, POWERFUL, STYLISH MONOCRYSTALLINE SILICON SOLAR MODULE

- HIGH QUALITY BLACK WELDING STRIPS - Prevents over heating of the panel (Patent pending)
- LONGER LIFE - Less panel degradation over the life of the panel
- ULTRA SMOOTH TEMPERED GLASS - Less dust and grime collecting on the panels
- NEW GENERATION ANTI REFLECTIVE GLASS COATING - Increases light transmittance
- HIGH QUALITY EVA FILM - Widens light transmittance range



Think **Black** series

ELECTRICAL PERFORMANCE

Module type		PLM-200MA-42 Series	
Power output	P_{max}	W	200
Power output tolerances	ΔP_{max}	%	0 - 3
Voltage at Pmax	V_{mpp}	V	22.71
Current at Pmax	I_{mpp}	A	8.81
Open-circuit voltage	V_{oc}	V	27.48
Short-circuit current	I_{sc}	A	9.41
Solar Module Efficiency	Eff.	%	17.33

STC:1000W/m² irradiance, 25°C cell temperature, AM 1.5g spectrum according to EN 60904-3.

THERMAL CHARACTERISTICS

Nominal operating cell temperature	NOCT	°C	45±2
Temperature coefficient of Pmax	β	%/°C	-0.40
Temperature coefficient of Voc	β_{Voc}	%/°C	-0.30
Temperature coefficient of Isc	α_{Isc}	%/°C	0.06
Temperature coefficient of Vmpp	β_{Vmpp}	%/°C	-0.35

OPERATING CONDITIONS

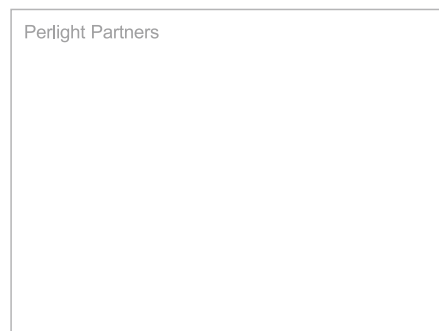
Max. system voltage	1000V _{DC}
Limiting reverse current	15A
Operating temperature range	-40°C to 85°C
Max. static load front (e.g., snow)	5400Pa
Max. static load back (e.g., wind)	2400Pa
Max. hailstone impact (diameter / velocity)	25mm / 23m/s

MECHANICAL CHARACTERISTICS

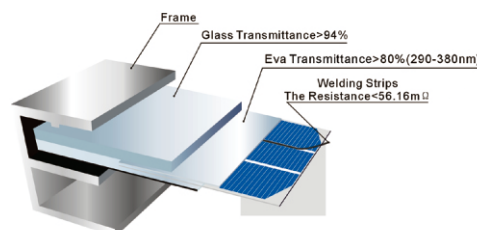
Front cover (material / thickness)	low-iron tempered glass / 3.2mm
Backsheet (color)	black
Cell (quantity/material/dimensions)	42 / monocrystalline silicon / 156.75x156.75mm
Frame (material / color)	anodized aluminum alloy / black
Junction box (protection degree)	≥ IP67
Cables & Plug connectors	900mm / 4mm ² & MC4 compatible / IP67
Module Dimensions (L / W / H)	1164x992x35mm
Module Weight	

PACKING DETAILS

Pieces per pallet	50pcs
Size of pallet	1204 mm x 1032mm x 2270mm



ALL BLACK PANELS



REGULAR BLACK PANELS

