



PRODUCT WARRANTY



PERFORMANCE WARRANTY (90%)



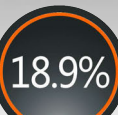
PERFORMANCE WARRANTY (80%)



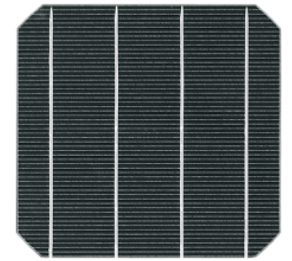
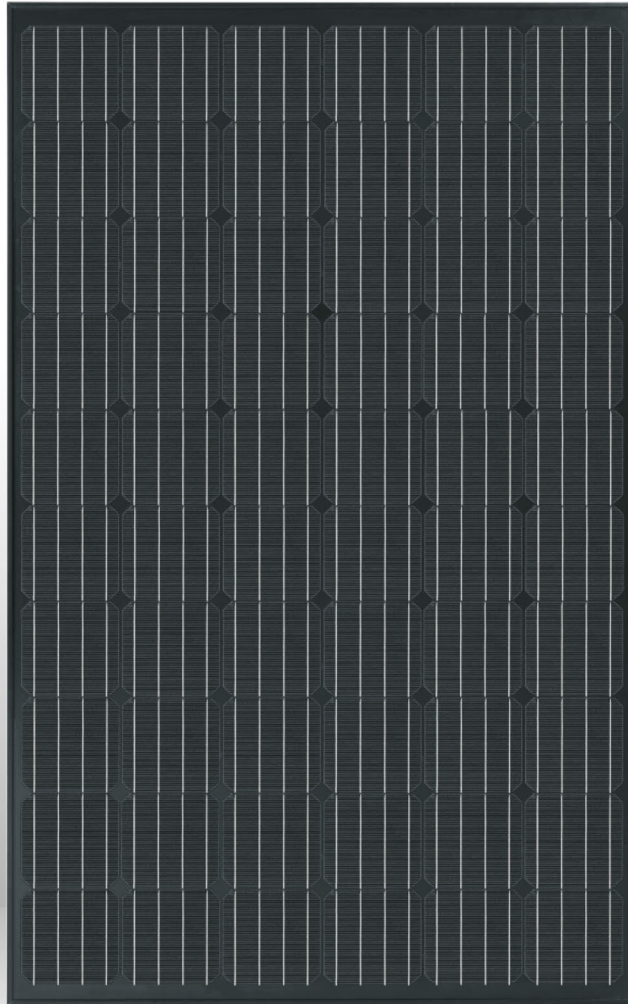
POSITIVE TOLERANCE



CELL EFFICIENCY



MODULE EFFICIENCY



NEW SOLAR CELL
4 BUS BAR

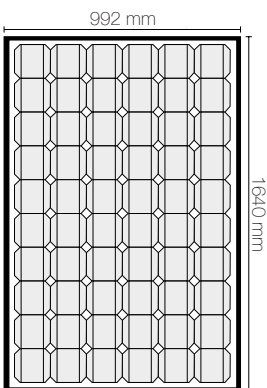


Westtech Quality Guarantee

- Quality Guaranteed
- 12 Year Workmanship Warranty
- 25 Year Output Performance Warranty
- >90% Output for 12 Years
- >80% Output for 25 Years
- Over 30 Years Manufacturing Experience

- ✓ IEC61730 safety rated for high wind pressure, hail impact, snow load and fire.
- ✓ Certified against Salt mist corrosion for coastal areas.
- ✓ Certified against Ammonia corrosion for agricultural installations.
- ✓ Produced in an environmentally friendly ISO 9001, OHSAS 18001 and ISO 14000 certified manufacturing facility, which has been utilizing an onsite 360kW Perlight Solar system since 2006.

Specifications



PLM-285M-60 Series
Weight: 18.1kg

Approved by:



BLACKPLUS+ SERIES: PLM-285MB-60 MONOCRYSTALLINE SILICON SOLAR MODULE

STATE OF THE ART HIGH EFFICIENCY
MORE POWER PER M²

MANUFACTURING BASE

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ELECTRICAL PERFORMANCE

Module type	PLM-285MB-60 Series								
Power output	P_{max}	W	250	255	260	280	285	300	
Power output tolerances	ΔP_{max}	%	0 - 3						
Voltage at Pmax	V_{mpp}	V	30.49	30.92	31.18	31.64	31.78	32.54	
Current at Pmax	I_{mpp}	A	8.20	8.25	8.34	8.85	8.97	9.22	
Open-circuit voltage	V_{oc}	V	38.00	38.10	38.20	39.24	39.35	40.11	
Short-circuit current	I_{sc}	A	8.78	8.84	8.92	9.24	9.36	9.61	

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	γ	%/°C	-0.45
Temperature coefficient of Voc	β_{Voc}	%/°C	-0.34
Temperature coefficient of Isc	α_{Isc}	%/°C	0.06
Temperature coefficient of Vmpp	β_{Vmpp}	%/°C	-0.40

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)	Tempered glass + ARC glass/3.2mm
Backsheet (color)	black
Cell (quantity/material/dimensions)	60/monocrystalline silicon/156x156mm
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)	1640mm x 992mm x 40mm
Module Weight	18.1kg

PACKING DETAILS

Container	20'GP	40'HQ
Pieces per pallet	52	58
Pallets per container	6	14
Pieces per container	312	812

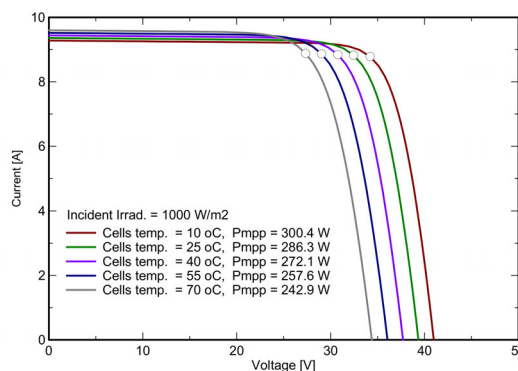
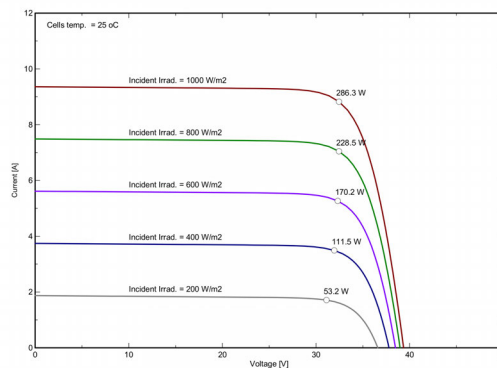
Module Frame

- Extremely reliable screw-less, interconnected frame for long-term flexibility and strength.
- 20 in-built drainage waterpouts.
- 8 mounting holes for direct mounting option.
- 2 earth (Ground) points



Electrical Curves

PLM-285MB-60



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