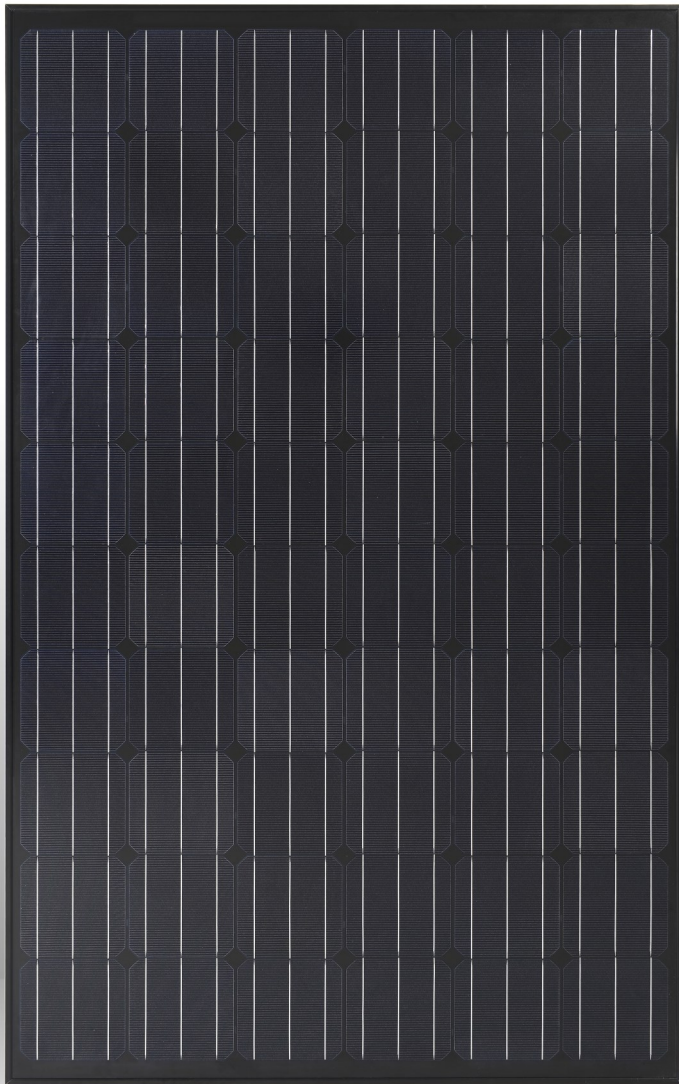


Intenergy *Premium Series*

INE-285MB-60

High-Efficiency Photovoltaic Modules



INE-285MB-60

Standard Black

- 60 cell high wattage panels
- Standard frame size (1640 x 992 x 40)
- Black frame & black back sheet
- Module efficiency 18.9%
- Cell efficiency 21.6%
- +3% tolerance
- Superior quality finish

12 year product warranty

12 year performance warranty of 90% of original power output

25 year performance warranty of 80% of original output



MANUFACTURER

Perlight Solar Co Ltd
Muya Administration District
Wenling, Zhejiang.
317521, China

DISTRIBUTOR

Solarvis Energy Ltd
Genesis House, Priestley Way
Crawley, West Sussex
RH10 9PR
United Kingdom

Intenergy

Manufactured by

PERLIGHT SOLAR

Intenergy Premium Series

INE-285MB-60

ELECTRICAL PERFORMANCE

Module type	PLM-285MB-60		
Power output	P_{max}	W	285
Power output tolerances	ΔP_{max}	%	0—3
Voltage at Pmax	V_{mpp}	V	32.5
Current at Pmax	I_{mpp}	A	8.77
Open-circuit voltage	V_{oc}	V	39.35
Short-circuit current	I_{sc}	A	9.41

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

THERMAL CHARACTERISTICS

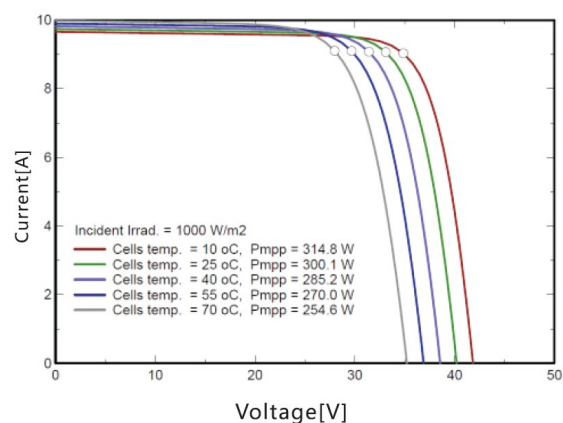
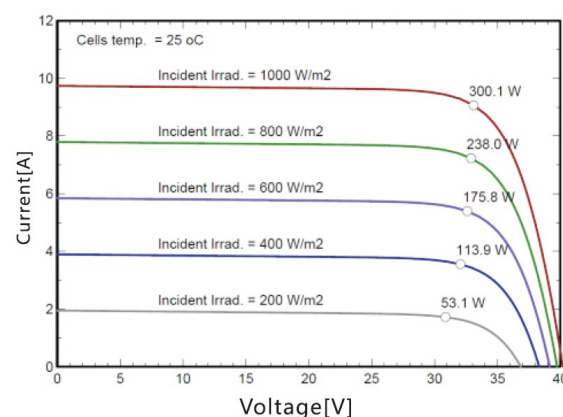
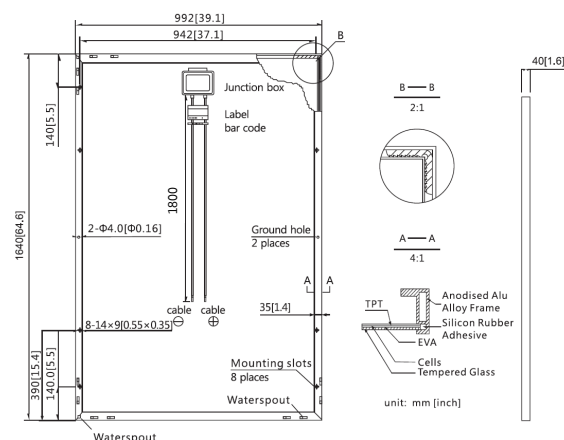
Nominal operating cell temperature	NOCT	°C	45±2
Temperature coefficient of Pmax	γ	%/°C	-0.45
Temperature coefficient of Voc	β_{Voc}	%/°C	-0.34
Temperature coefficient of Isc	α_{Isc}	%/°C	0.06
Temperature coefficient of Vmpp	β_{Vmpp}	%/°C	-0.40

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	56
Pallets per container	6	14
Pieces per container	312	784

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