



# HPS0150M-36

**M-36 SERIES**



High performance even under low lighting conditions (cloudy days, mornings and evenings).

Our solar panels are distinguished by 6 protective diodes present in the junction box. These panels are tested individually and come with individual test reports for guaranteed maximum positive power output (0~+3%).

Manufactured according to International Quality and Environment Management System (ISO 9001:2008, ISO 14001:2004, BS OHSAS 18001:2007).

Independently certified by international certification bodies\*, including the Salt Mist Corrosion certificate and Ammonia Corrosion certificate.

Holding the following certifications by TÜV SÜD: IEC 61215, IEC 61730-1, IEC 61730-2, IEC 61701, IEC 61345 and IEC 62716.

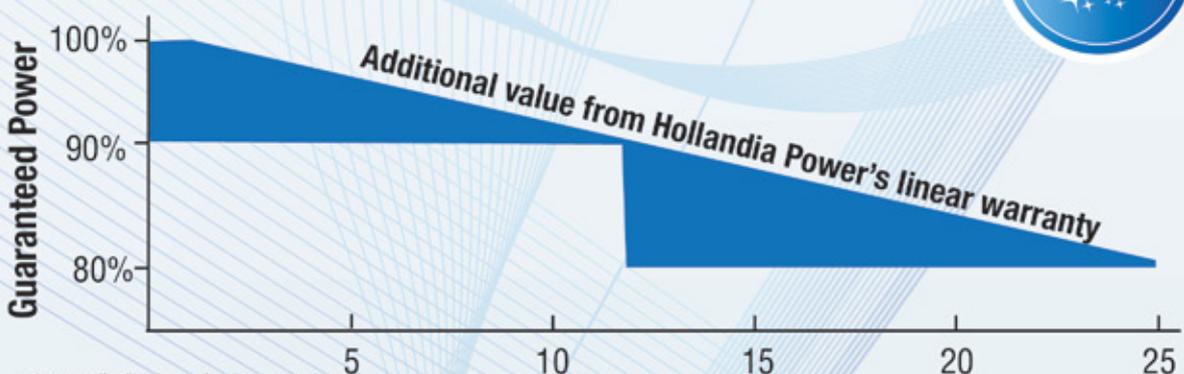
Module can take on wind loads up to 2400Pa and snow loads up to 5400Pa.

Black frame and black sheet are optional with aesthetic module appearance.

## LINEAR PERFORMANCE WARRANTY

10 years product warranty

25 years linear power warranty



- 10 year limited product warranty<sup>1</sup>

- Limited power warranty: 12 years at 90% of the minimal rated power output, 25 years at 80% of the minimal rated power output.

<sup>1</sup>In compliance with our warranty Terms and Conditions



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### ELECTRICAL PERFORMANCE

#### Electrical parameters Standard Test Conditions (STC)

Module type	HPS0150		
Power output	P <sub>max</sub>	W	150
Power tolerance	ΔP <sub>max</sub>	%	0~+3
Cell efficiency	η <sub>m</sub>	%	17.4
Module efficiency	η <sub>m</sub>	%	14.8
Voltage at P <sub>max</sub>	V <sub>m</sub>	V	18.4
Current at P <sub>max</sub>	I <sub>m</sub>	A	8.20
Open-Circuit Voltage	V <sub>oc</sub>	V	22.8
Short-Circuit Current	I <sub>sc</sub>	A	8.75

STC: 1000W/m<sup>2</sup> irradiance, 25°C module temperature, AM 1.5g spectrum.

### THERMAL CHARACTERISTICS

Nominal operation cell temperature	NOCT	°C	45±2
Temperature coefficient of P <sub>max</sub>	γ	% °C	-0.403
Temperature coefficient of V <sub>oc</sub>	β <sub>voc</sub>	% °C	-0.330
Temperature coefficient of I <sub>sc</sub>	α <sub>isc</sub>	% °C	+0.065

### OPERATING CONDITIONS

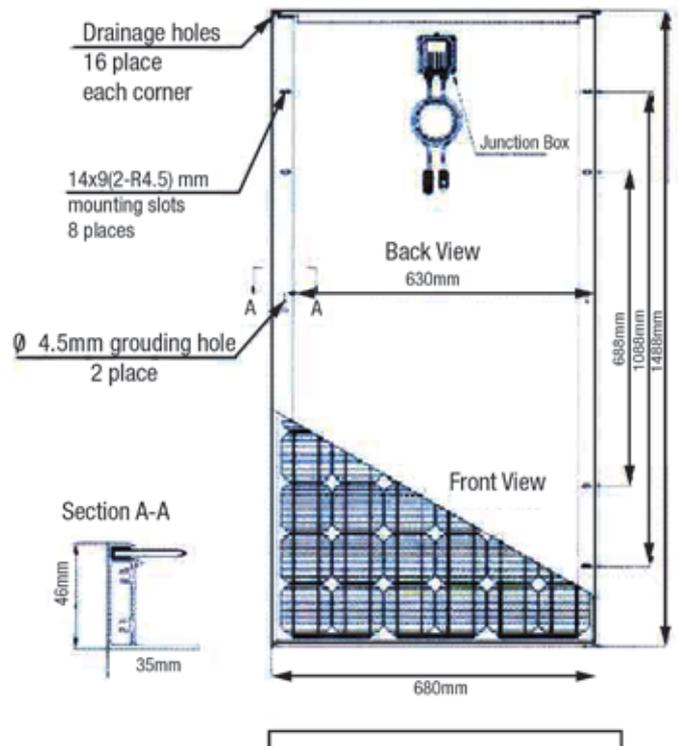
Max. system voltage	1000V
Max. series fuse rating	10A
Operating temperature range	-40°C ~ 85°C
Max. static load, front (e.g. snow and wind)	5400Pa
Max. static load, back (e.g. wind)	2400Pa

### CONSTRUCTION MATERIALS

Front cover (material/type/thickness)	low-iron tempered glass/3.2mm
Cell (quantity/material/type/dimension)	36/monocrystalline/156mm x 156mm
Encapsulant (material)	ethylene vinyl acetate (EVA)
Frame (material/anodization colour)	anodized aluminium alloy/clear
Junction box (protection degree)	IP65
Cable (length/cross-section area)	600mm/4mm <sup>2</sup>
Plug connector	MC4 compatible

### GENERAL CHARACTERISTICS

Dimension (L/W/H)	1488mm/680mm/35mm
Weight	10 kg



### OUR PARTNER



- Due to continuous innovation, research and product improvement, the specifications in this product data sheet are subject to change without prior notice. The specifications may deviate slightly and are not guaranteed.
- The data do not refer to a single module, they only serve for comparison to different module types.

**Please read the instruction manual in this entirety before handling, installing and operating Hollandia Power modules.**

**HOLLANDIA POWER PRODUCTS ARE DESIGNED AND QUALITY CONTROLLED IN THE NETHERLANDS**