

HES-6PB(-HV) SERIES 6 INCH 60 CELLS

270-285_w



KEY FEATURES



Bankable products



Top rank in Photon yield measurement



Safety for salt mist corrosion
Safety for ammonia corrosion



Safety for fire risk
(Class C tested in TÜV SÜD and Rheinland)



Outstanding power output capability at low irradiance



Triple 100% Electroluminescence (EL) tests minimize breakage rate



World 1st company to pass "Thresher Test" and "On-site Power Measurement Validation" certificate



Anti-PID products, passing TÜV SÜD system voltage durability test
According to IEC62804-1:2015



Tested and certified according to newest IEC standard
IEC61730-1:2016 IEC61215-1:2016
IEC61730-2:2016 IEC61215-2:2016
IEC62716:2014-02

MANAGEMENT SYSTEM

ISO 9001: Quality management system

ISO 14001: Standard for environmental management system

OHSAS 18001: International standard for occupational health and safety assessment system

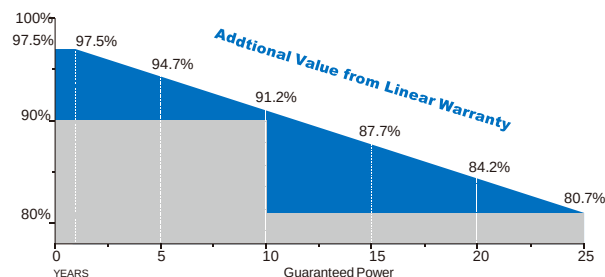
INSURANCE



PRODUCT CERTIFICATES



WARRANTY



Guarantee on product material and workmanship



linear power output warranty

All specifications and information are given with good intent, errors are possible and products may be subject to change without notice.



HES-XXX-6PB: Maximum System Voltage 1000VDC.

HES-XXX-6PB-HV: Maximum System Voltage 1500VDC.

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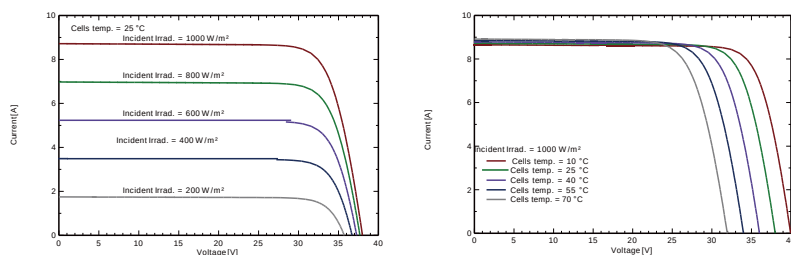
Electrical Characteristics

Module Type	HES-270-6PB HES-270-6PB-HV		HES-275-6PB HES-275-6PB-HV		HES-280-6PB HES-280-6PB-HV		HES-285-6PB HES-285-6PB-HV	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power -P _{mp} (W)	270	200	275	204	280	208	285	212
Open Circuit Voltage -V _{oc} (V)	38.1	35.2	38.3	35.4	38.5	35.6	38.7	35.8
Short Circuit Current -I _{sc} (A)	8.99	7.26	9.08	7.35	9.18	7.44	9.27	7.53
Maximum Power Voltage -V _{mp} (V)	31.3	29.2	31.6	29.4	31.8	29.6	32.0	29.8
Maximum Power Current -I _{mp} (A)	8.63	6.85	8.71	6.94	8.81	7.03	8.91	7.12
Module Efficiency STC-η _m (%)	17.1		17.4		17.7		18.0	
Power Tolerance (W)	(0,+4.99)							
Maximum System Voltage (V)	1000VDC / 1500VDC							
Maximum Series Fuse Rating (A)	20A							
Pmax Temperature Coefficient	-0.39%/°C							
Voc Temperature Coefficient	-0.30 %/°C							
Isc Temperature Coefficient	+0.05 %/°C							
Operating Temperature	-40~+85 °C							
Nominal Operating Cell Temperature	45±2 °C							

STC: Irradiance 1000 W/m² module temperature 25°C AM=1.5

NOCT: Irradiance 800 W/m² ambient temperature 20°C wind speed :1m/s Power measurement tolerance: +/-3%

Curve



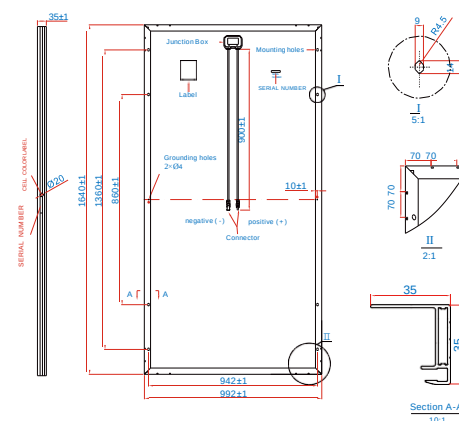
Mechanical Specifications

External Dimension	1640 x 992 x 35mm/1650 x 992 x 35mm
Weight	17.5kg/18.0kg
Solar Cells	Poly crystalline 156.75 x 156.75 mm (60pcs)
Front Glass	3.2 mm AR coating tempered glass, low iron
Frame	Anodized aluminium alloy
Junction Box	IP67
Output Cables	4.0 mm ² , cable length: 900 mm
Connector	MC4 Compatible
Mechanical Load	5400 Pa

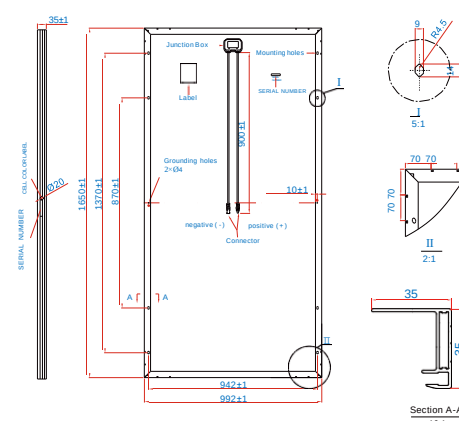
Packing Configuration

External Dimension	1640 x 992 x 35mm/1650 x 992 x 35mm	
Container	20'GP	40'GP
Pieces per Pallet	30	30
Pallets per Container	12	28
Pieces per Container	360	840

Technical drawing(HES-XXX-6PB)



Technical drawing(HES-XXX-6PB-HV)



* All Dimensions in mm.

* The above drawing is a graphical representation of the product.

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