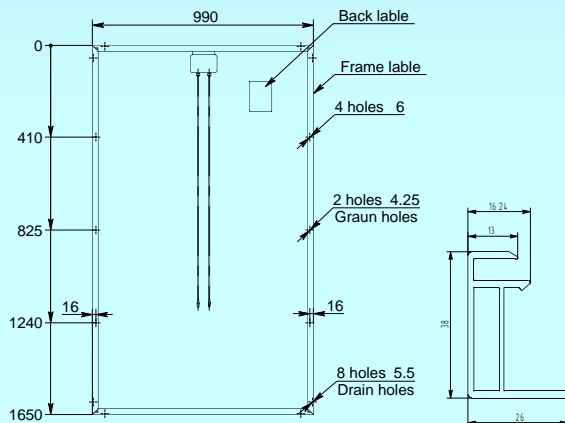


# Multi Crystalline Solar Module HS-PB2 Series

## Physical Characteristics

Cells per Module	60 Cells (6x10)
Cell Type	Multi-crystalline Silicon
Module Dimension (L x W x H)	1650x990x38 (mm)
Module Weight	18.5Kg
Frame	Anodized Aluminum (Black frame available by customer order)
Front Glass	3.2mm Tempered Glass
Junction Box	IP66 / IP65, 4mm <sup>2</sup>
Cable Length(+/-)	1000mm



## Electrical Characteristics

Item	Unit	HS-PB2/230	HS-PB2/235	HS-PB2/240	HS-PB2/245	HS-PB2/250	HS-PB2/255
Max. Power (Pmax)	W	230	235	240	245	250	255
Open circuit voltage (Voc)	V	37,2	37,35	37,50	37,65	37,80	37,95
Short circuit current (Isc)	A	8,4	8,5	8,6	8,7	8,8	8,9
Max. Power voltage (Vmp)	V	29,8	30,0	30,2	30,4	30,6	30,8
Max. Power current (Imp)	A	7,73	7,84	7,95	8,06	8,17	8,30
Module efficiency	%	14,09	14,38	14,69	15,00	15,35	15,61
Power Tolerance	W	0~+4,99					

\*STC (Standard Test Condition): 1000W/m<sup>2</sup>, AM 1.5, 25°C

## Permissible operating conditions

Temperature range	-40 to +85 °C
Maximum system voltage	1,000V DC(IEC), 600V DC(UL)
Maximum surface load cap	5,400Pa
Maximum hailstone impact (diameter / velocity)	25mm / 23m/s

\*NOCT (Nominal Operating Cell Temperature): 800W/m<sup>2</sup>, 20°C, wind speed 1m/s

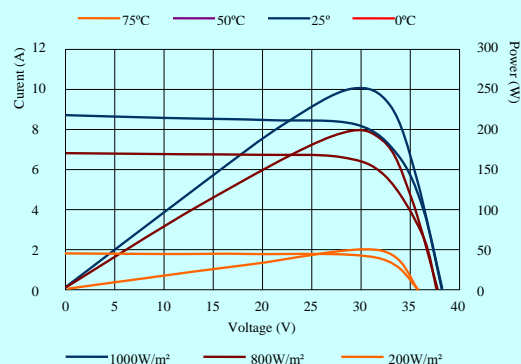
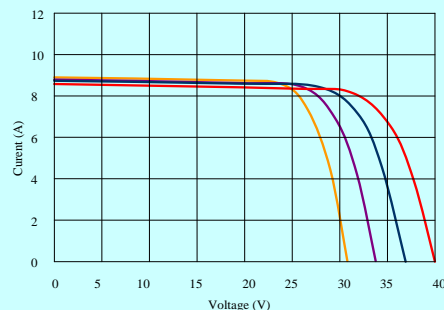
## Thermal Characteristics

Rating	Unit	Value	
NOCT	°C	47±2	
Temperature coefficient	Isc	%/°C	+ 0,05
	Voc	%/°C	- 0,32
	P <sub>MAX</sub>	%/°C	- 0,42

## Packing Specifications

Packing box dimension (L x W x H)	1670x800x1150 (mm)
Number of modules per pallet	20

## I-V Curves



## Warranty

10 Years of product warranty.  
10 Years for 90% of warranty min. power.  
25 Years for 80% of warranty min. power.

## Qualifications and Certificates

