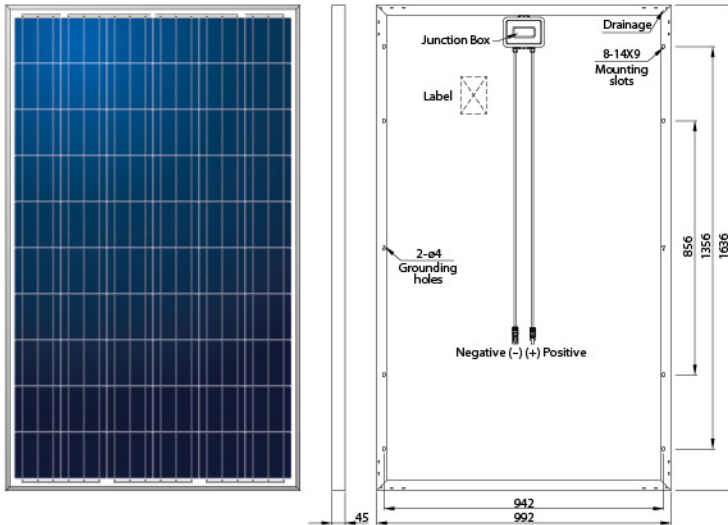


# 3BB HR-230P-18/Bb — HR-250P-18/Bb

Poly-Crystalline Silicon Module



## MECHANICAL PARAMETERS

Cell (mm)	156x156 Poly
Weight (kg)	19.5
Dimensions (LxWxH) (mm)	1636x992x45
Cable Cross Section Size (mm <sup>2</sup> )	4
No. of Cells and Connections	60(6x10)
No. of Diodes	3

## QUALIFICATION

Max. System Voltage	1000VDC
Temperature Cycling Range	-40°C~+85°C
Max. Series Fuse	15 A
Max. Wind Load / Max. Snow Load	2400Pa / 5400Pa
Damp Heat Test	85°C and 85 relative humidity for 1000h
Hot Spot Free	100%EL inspection before and after lamination

## ELECTRICAL PARAMETERS

TYPE		HR-230W	HR-235W	HR-240W	HR-245W	HR-250W	
<b>STC</b>	Rated Max. Power at STC (W)	230	235	240	245	250	
	AM 1.5, 1000W/m <sup>2</sup> , Module Temperature 25°C	Max. Power Voltage / Vmp (V)	29.34	29.49	29.67	29.88	29.98
		Max. Power Current / Imp (A)	7.84	7.97	8.09	8.20	8.34
		Open Circuit Voltage / Voc (V)	37.05	37.16	37.25	37.34	37.41
		Short Circuit Current / Isc (A)	8.23	8.32	8.48	8.63	8.79
		Module Efficiency (%)	14.17	14.48	14.79	15.10	15.40
<b>NOCT</b>	Rated Max. Power at NOCT (W)	164	167	172	176	180	
	AM 1.5, 800W/m <sup>2</sup> , Ambient Temperature 20°C, Wind Speed 1m/s	Max. Power Voltage / Vmp (V)	25.73	25.84	25.96	26.06	26.17
		Max. Power Current / Imp (A)	6.36	6.48	6.61	6.75	6.89
		Open Circuit Voltage / Voc (V)	33.85	33.95	34.06	34.20	34.32
		Short Circuit Current / Isc (A)	6.69	6.82	6.96	7.10	7.24
		Module Efficiency (%)	12.64	12.86	13.25	13.55	13.86
Temperature Coefficient of Pm			-0.44%/°C				
Temperature Coefficient of Voc			-0.32%/°C				
Temperature Coefficient of Isc			+0.055%/°C				
Nominal Operating Cell Temperature			45°C±3°C				
Output Tolerance			0~5W				

## 235W CURVES

