3BB HR-235P-18/Ebb—HR-255P-18/Ebb

Onyx Series Module

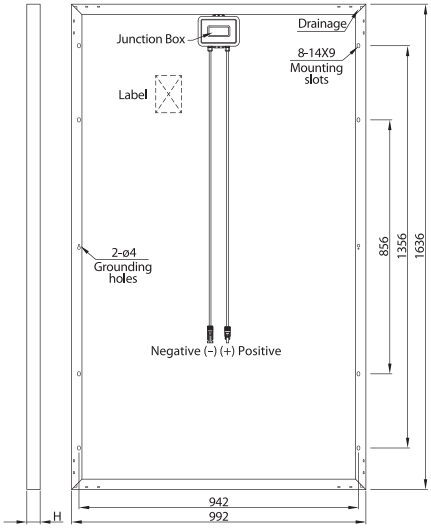
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MECHANICAL PARAMETERS

Cell (mm)	156×156 Poly
Dimensions (L×W×H) (mm)	1636×992×45
Weight (kg)	19.5
Cable Cross Section Size (mm^2)	4
No. of Cells and Connections	60(6×10)
No. of Diodes	3

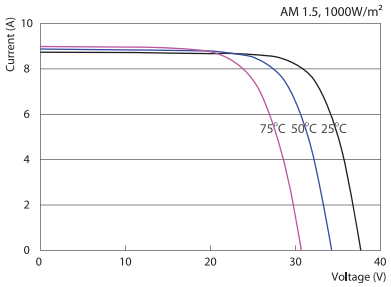
QUALIFICATION

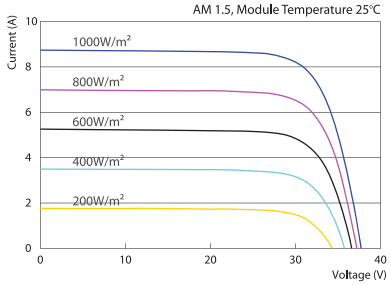
Max. System Voltage	1000VDC
Temperature Cycling Range	-40°C~+85°C
Max. Series Fuse	15 A
Max. Wind Load / Max. Snow Load	2400Pa / 5400Pa
Damp Heat Test	85°C and 85 relative humidity for 1000h
Hot Spot Free	100%EL inspection before and after lamination

ELECTRICAL PARAMETERS

TYPE		HR-235W	HR-240W	**HR-245W**	HR-250W	HR-255W
STC AM 1.5, 1000W/m^2, Module Temperature 25°C	Rated Max. Power at STC (W)	235	240	245	250	255
	Max. Power Voltage / Vmp (V)	29.06	29.20	29.48	29.60	29.73
	Max. Power Current / Imp (A)	8.09	8.22	8.31	8.45	8.58
	Open Circuit Voltage / Voc (V)	37.43	37.52	37.65	37.73	37.88
	Short Circuit Current / Isc (A)	8.42	8.51	8.74	8.90	9.01
	Module Efficiency (%)	14.48	14.79	15.10	15.40	15.71
NOCT AM 1.5, 800W/m^2, Ambient Temperature 20°C, Wind Speed 1m/s	Rated Max. Power at NOCT (W)	169.4	172.2	176.7	180.6	183.7
	Max. Power Voltage / Vmp (V)	27.10	27.20	27.30	27.40	27.50
	Max. Power Current / Imp (A)	6.25	6.33	6.47	6.59	6.68
	Open Circuit Voltage / Voc (V)	33.90	34.00	34.10	34.20	34.30
	Short Circuit Current / Isc (A)	6.82	6.89	7.08	7.21	7.30
	Module Efficiency (%)	13.05	13.26	13.61	13.91	14.15
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		47°C±3°C				
Output Tolerance		0~5W				

245W CURVES





PACKING CONFIGURATION

MODULE SIZE	CONTAINER	20'GP	40'GP	40'HC
1636×992×45	Pieces Per Pallet	22	22	22
	Pallets Per Container	6	14	28
	Pieces Per Container	132	308	616

WARRANTY

90% power output over *12* years;

80% power output over *25* years;

Free from defects in materials and workmanship for *10* years.

Specifications in this catalog sheet are subject to technical changes and product innovations. Hareon Solar reserves the right of final interpretation. 2013.04