



PWM-230W/M9X-230
 PWM-235W/M9X-235
 PWM-240W/M9X-240

Electrical Data

MONO-125mm Solar cells	PWM-230W	PWM-235W	PWM-240W
Nominal peak power [Pmax]	230Wp	235Wp	240Wp
Maximum power voltage [Vmp]	47.3V	47.9V	48V
Maximum power current [Imp]	4.87A	4.91A	5A
Short-circuit current [Isc]	5.3A	5.34A	5.43A
Open-circuit voltage [Voc]	58V	58.4V	58.5V
Optimized cell efficiency [η]	16.0%	16.4%	16.8%

Power Tolerance: ±3%

Limits

Operating temperature	-40°C to +85°C
Maximum system voltage	1000VDC

Temperature and Coefficients

NOCT	48°C±2°C	
Current temperature coefficient	%/°C	0.05
Voltage temperature coefficient	%/°C	-0.33
Power temperature coefficient	%/°C	-0.34

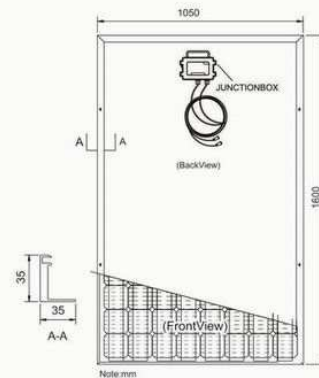
NOCT:Nominal Operation Cell Temperature

Additional Data

Number of cells and type of connection	96,serial connection
Dimensions	Length: 1600 mm Width: 1050 mm Height: 35 mm
Net Weight	21.0 kgs/pc
Gross Weight	623kgs/ctn(28pcs/ctn) 46kgs/ctn(2pcs/ctn)
Package Dimension	1655x1140x1198mm 1618x1080x110mm
Container Loading	784PCS/40'HQ 28PCS/CTN 252PCS/20'GP 2PCS/CTN

STC: Irradiance of 1000W/m², Air Mass of 1.5, Cell Temperature of 25°C

Guaranteed Power Output	15 years: 90% of its nominal power rating
Warranted Tolerance : ±5%	25 years: 80% of its nominal power rating
Impact Resistance	Can bear the force that is generated by one 227g steel ball fall down from 1m height
Warranty Period	10 years: Materials and workmanship defects
Certificates	CE,ISO,IEC61215&61730(TUV),UL1703/CSA,MCS
Cells	Monocrystalline silicon photovoltaic cell



Characteristics

Module Graph 240W

