



PWM-80W/M3X-80  
 PWM-90W/M3X-90  
 PWM-100W/M3X-100

**Electrical Data**

MONO-125mm Solar cells	PWM-80W	PWM-90W	PWM-100W
Nominal peak power [Pmax]	80Wp	90Wp	100Wp
Maximum power voltage [Vmp]	17V	18V	18.8V
Maximum power current [Imp]	4.71A	5A	5.32A
Short-circuit current [Isc]	5.05A	5.3A	5.64A
Open-circuit voltage [Voc]	21.35V	22.4V	23.18V
Optimized cell efficiency [η]	14.8%	16.8%	18.6%

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

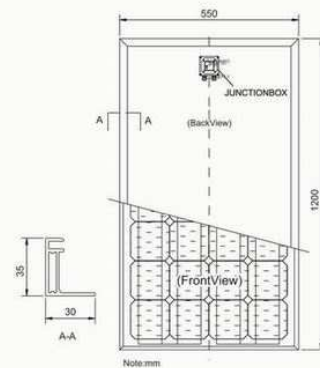
NOCT:Nominal Operation Cell Temperature

**Additional Data**

Number of cells and type of connection	36,serial connection
Dimensions	Length: 1200 mm Width: 550 mm Height: 35 mm
Net Weight	8.2 kgs/pc
Gross Weight	18kgs/ctn(2pcs/ctn)
Package Dimension	1218x580x85mm
Container Loading	1224PCS/40'GP 2PCS/CTN 544PCS/20'GP 2PCS/CTN

STC: Irradiance of 1000W /m<sup>2</sup>, Air Mass of 1.5, Cell Temperature of 25°C

Guaranteed Power Output Warranted Tolerance : ±5%	15 years: 90% of its nominal power rating
	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**

