

## PWM-50W PWM-55W PWM-60W

### Electrical Data

MONO	PWM-50W	PWM-55W	PWM-60W
Nominal peak power [Pmax]	50Wp	55Wp	60Wp
Maximum power voltage [Vmp]	16.4V	17.0V	18V
Maximum power current [Imp]	3.05A	3.24A	3.34A
Short-circuit current [Isc]	3.32A	3.42A	3.59A
Open-circuit voltage [Voc]	20.8V	21.4V	22V
Optimized cell efficiency [η]	14.8%	16.2%	17.8%

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	0.037
Voltage temperature coefficient	%/°C	-0.34
Power temperature coefficient	%/°C	-0.48

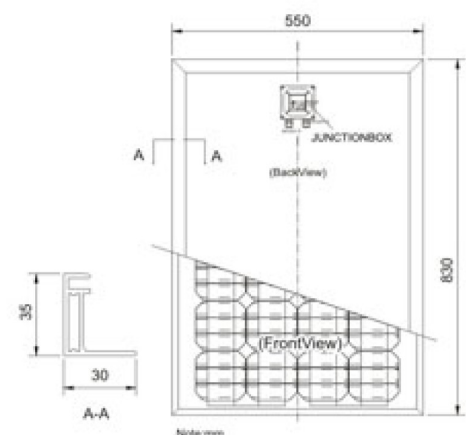
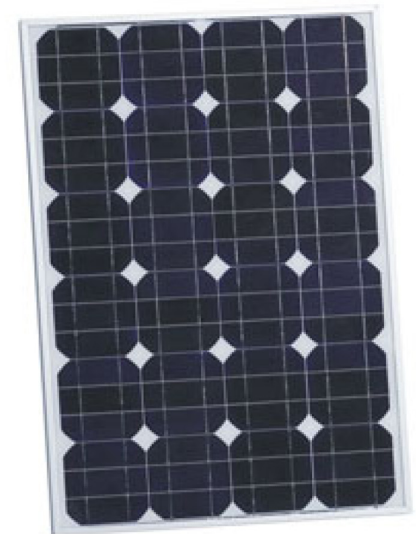
NOCT: Nominal Operation Cell Temperature

### Additional Data

Number of cells and type of connection	24, serial connection	
Dimensions	Length: 830 mm Width: 550 mm Height: 35 mm	
Net Weight	5.5 kgs/pc	
Gross Weight	12kgs/ctn(2pcs/ctn)	
Package Dimension	848X580X85mm	
Container Loading	1800PCS/40'HQ	2PCS/CTN
	1584PCS/40'GP	2PCS/CTN
	792PCS/20'GP	2PCS/CTN

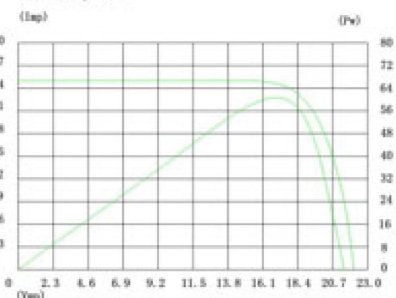
STC: Irradiance of 1000W /m<sup>2</sup>, Air Mass of 1.5, Cell Temperature of 25°C

Guaranteed Power Output	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/UKAS, RoHS
Cells	Monocrystalline silicon photovoltaic cell



### Characteristics

Module Graph 60W



CE RoHS  
please visit  
[www.engineo.co.th](http://www.engineo.co.th)

