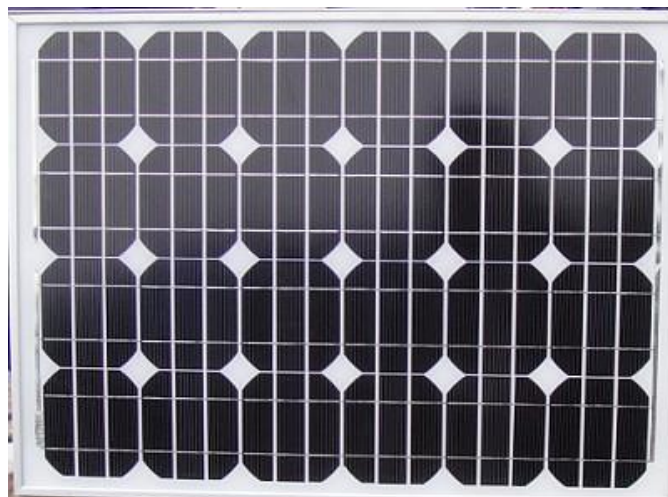


# 100 WATTS SOLAR POWER KIT

PURE ENER G 100 watts solar panel



Parameters	type	PEVM-12V100M
		Mono-crystalline silicon
Maximum power (watt)	W	100W
Production tolerance		+3% /-3%
Maximum power voltage	V	17.5V
Maximum power current	A	6.28
Open circuit voltage	V	21.5V
Short circuit current	A	6.59
Size of module (wide and high)		1346*550*35(mm)
Weight:		10.5KG
Frame(type, material and thickness)		Anodized Alum. Alloy 35mm thickness
Number of cells		72pcs(156*156mm)
Type of junction box		TUV certified junction box
Certificates		CE, ROHS
Cable type and length, connector type		4cm <sup>2</sup> TUV certified cable 1m long Multi contact connector (compatible to MC type IV)
Maximum system voltage		1000V
Temperature coefficient of Isc		±0.05%°C
Temperature coefficient of Voc		-0.33%°C
Temperature coefficient of power		-0.5%°C
Temperature coefficient of Imp		+0.08%°C
Temperature coefficient of Vm		-0.33%°C
NOCT(nominal operating cell temperature)		-45 °C --+85 °C
Insulation		> = 100Mohm
Voltage standoff		AC2000V, DC 3000V
Wind bearing		60m/s(200kg/sq.m)
Impact resistance hail impact test		227g steel ball fall down from 1m height
Encapsulated with toughened glass		Low iron tempered glass with thickness of 3.2mm,light transmittance above91%
Superstrate in front		Hi-sheet RC 02B (0.45mm thick)/Japan
Backside foil		PTL3-38/75(0.17mm thick),Krempel/Germany
Conversion efficiency		Cell conversion efficiency> 16.7%
Quality guarantee		2years product warranty,10years 90%

## SOLAR CHARGE CONTROLLER



### TECHNICAL INFORMATION

- Regulations point 14.4 Volts
- Low voltage Disconnect 11.1 Volts
- Low voltage Reconnect 13.1 Volts

**Note: all is for 12V system only, use 2x for 24 Volt system**

- Microcontroller digital accuracy
- Type of Charging Series PWM & stat of charge(SOC)  
4 Stages: equalization, PWM, Boost and Float, temperature compensated charging
- Electronic protections Short circuit and over current-solar and load  
Reverse polarity-solar, load, battery  
Reverse current at night  
Limits high voltage to protect loads  
Lighting protection
- Tropicalization Conformal coated printed circuit board
- Terminals For wire sizes to 6mm<sup>2</sup>
- Weights 160g
- Self-consumption 6mA maximum
- Temperature -35°C to 55°C
- Enclosure IP22
- Warranty 1 years
- Compliance CE

## 600 watts power inverter



INPUT VOLTAGE	DC12V
OUTPUT VOLTAGE	AC220~240±10%
CONTINUOUS POWER	600W
PEAK POWER	1200W
OUTPUT WAVEFORM	Pure Sine Wave
FREQUENCY	60/50Hz
EFFICIENCY	>90%
LOWER INPUT VOLTAGE WARNING	10.5VDC+0.5V
LOWER VOLTAGE PROTECTION	10VDC+0.5V
HIGH VOLTAGE PROTECTION	15VDC+0.5V
STATIC CURRENT	<0.6A
OVERLOADING PROTECTON	>600W

## DEEP CYCLED BATTERY



100 AH / 12V MOTOLITE SOLAR MASTER

1	Pc	(PEPM-12V100M) 100 watts solar panel	P 25,000.00	P 25,000.00
1	Pc	(PECC-20A) 20Amp Solar Charge Controller	P 3,500.00	P 3,500.00
1	Pc	Power Inverter 1000watts (modified sine wave)	P 4,500.00	P 4,500.00
1	Pc	Solar Master Deep cycled Battery 100AH	P 6,500.00	P 6,500.00
			<b>TOTAL</b>	<b>P 39,500.00</b>

QTY	UNIT	APPLIANCES / EQUIPMENTS	RATINGS	No. Of hrs / day
1	PC	Washing Machine	300 watts	1.5
<b>or</b>				
1	Pc	Electric Fan	60 watts	4 hrs
3	pcs	CFL bulb	20 watts	4 hrs
<b>or</b>				
1	pc	TV	75 watts	4 hrs
1	Pc	Electric Fan	60 watts	1 hrs
3	pcs	CFL bulb	20 watts	2 hrs

Optional:

Pure sine wave power inverter

Rating :

600Watts – P7,500.00

1000watts – P 16,500.00

NOTE:

\*\*Price does not include installation, wirings & mounting brackets.

\*\* Prices are VAT exclusive.