

# ER-12V1000W-SCI

<b>Model</b>	ER-12V1000W-SCI
<b>EAN code</b>	8719033872059
<b>Rated Power</b>	1000VA/1000W
<b>INPUT</b>	
Voltage	230 VAC
Selectable Voltage Range	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)
Frequency Range	50 Hz/60 Hz (Auto sensing)
<b>OUTPUT</b>	
AC Voltage Regulation (Batt. Mode)	230VAC $\pm$ 5%
Surge Power	2000VA
Efficiency (Peak)	90% ~ 93%
Transfer Time	10 ms (For Personal Computers) 20 ms (For Home Appliances)
Waveform	Pure sine wave
<b>BATTERY</b>	
Battery Voltage	12VDC
Floating Charge Voltage	13.5VDC
Overcharge Protection	16VDC
<b>SOLAR CHARGER &amp; AC CHARGER</b>	
Solar Charger Type	MPPT
Maximum PV Array Open Circuit Voltage	102 VDC
Maximum PV Array Power	500W
MPP Range @ Operating Voltage	17 ~ 80 VDC
Maximum Solar Charge Current	40A
Maximum AC Charge Current	20A
Maximum Charge Current	60A
<b>PHYSICAL</b>	
Size without package	88*225*320mm
Size with package	400*333*210cm
Weight without package	4.4KGS
Weight with package	5.2KGS
<b>OPERATING ENVIRONMENT</b>	
Humidity	5%~95% Relative Humidity(Non-condensing)
Operating Temperature	-10°C to 50°C
Storage Temperature	-15°C to 50°C



# ER- GEL12V-100AH

Product Code	ER- GEL12V-100AH
Type of Battery	Gel Battery
Nominal Voltage	12V
Nominal Capacity(10HR)	100AH
Terminal	A2-70
Casing Material	ABS
Rated Capacity	105.0 AH/5.25A(20hr ,1.80V/cell,25°C/77°F)
	100.0AH/10.0A(10hr,1.80V/cell,25°C/77°F)
	87.2AH/17.4A(5hr,1.75V/cell,25°C/77°F)
	79.4AH/26.5A(3hr,1.75V/cell,25°C/77°F)
	61.1AH/61.1A(1hr,1.60V/cell,25°C/77°F)
Max. Discharge Current	1000A (5s)
Internal Resistance	Approx 5.5mΩ
Operating Temp.Range	Discharge :-15~50°C(5~122°F)
	Charge :0~40°C (32~104°F)
	Storage :-15~40°C(5~104°F)
Nominal Operating Temp. Range	25 3°C (77 5°F )
Cycle Use	Initial Charging Current less than 25.0 A.Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient - 30mV/°C
Standby Use	No limit on Initial Charging Current Voltage 13.5V~13.8V at 25°C(77°F)Temp. Coefficient - 20mV/°C
Capacity affected by Temperature	40°C (104°F) 103%
	25°C ( 77°F ) 100%
	0°C ( 32°F ) 86%
Self Discharge	The batteries may be stored for up to 9 months at 25°C(77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.
Size (LxWxH ) without package	407*173*223mm
Size (LxWxH ) with package(UN casing size)	492*245*308mm
Weight without package	+/- 28.3kgs
Weight with package	+/- 29KGS



# ER-100GM

Model	ER-100GM
EAN Code	8719033872035
<b>ELECTRICAL DATA (STC)</b>	
Rated Power in Watts-Pmax(Wp)	100W
Open Circuit Voltage-Voc(V)	21.95V
Short Circuit Current-Isc(A)	5.87A
Maximum Power Voltage-Vmp(V)	17.90V
Maximum Power Current -Imp(A)	5.59A
Module Efficiency (%)	15.44%
STC: Irradiance 1000W/m <sup>2</sup> , Cell Temperature 25°C, Air Mass AM 1.5 according to EN 60904-3.	
<b>ELECTRICAL DATA (NOCT)</b>	
Maximum Power-Pmax(Wp)	74W
Open Circuit Voltage-Voc(V)	20.29V
Short Circuit Current-Isc(A)	4.74A
Maximum Power Voltage-Vmp(V)	17.08V
Maximum Power Current -Imp(A)	4.35A
NOCT: Irradiance at 800W/ m <sup>2</sup> , Ambient Temperature 20°C, wind speed 1m/s.	
<b>MECHANICAL DATA</b>	
Solar cells	Mono-crystalline 156x91mm 4 or 5 Bus bars
Cell Configuration	36Cells 3x12
Module dimensions	1200x540x35mm
With Box Size	1260*600*59mm
Weight	7KGS
With Box Weight	8.7KGS
Front Cover	3.2m Tempered Glass
Frame Material	Anodized Aluminum Alloy
J-Box	IP65 or IP67, 6 Diodes
Cable	4mm <sup>2</sup> (IEC)/12AWG(UL), 900mm
Connectors	MC4 or MC4 Comparable
<b>TEMPERATURE &amp; MAXIMUM RATINGS</b>	
Nominal Operating Cell Temperature(NOCT)	45°C±2°C
Temperature Coefficient of Voc	-0.32%/°C
Temperature Coefficient of Isc	0.05%/°C
Temperature Coefficient of Pmax	-0.39%/°C
Operational Temperature	-40~+85°C
Maximum System Voltage	1000V(IEC)/600V(UL)
Max Series Fuse Rating	10A
Limiting Reverse Current	10A

