

# Solar Inverter

4000W/5000W  
Solar Panel



Unique Power  
PV Input



Utility



Generator



24V/48V  
Battery Bank



Day-Time Charging  
Night-Time Discharging

230VAC 50Hz Output  
Home Appliances



Model	SEMP	SEMA	SEMO	SEMI	SEML	SEMR	SEMS	SEMT	SEMZ
Input Voltage	24VDC	24VDC	24VDC	24VDC	24VDC	24VDC	24VDC	24VDC	24VDC
Output Voltage	230VAC	230VAC	230VAC	230VAC	230VAC	230VAC	230VAC	230VAC	230VAC
Output Power	4000W	5000W	5000W	5000W	5000W	5000W	5000W	5000W	5000W
Efficiency	92%	92%	92%	92%	92%	92%	92%	92%	92%
Protection	Overload	Overload	Overload	Overload	Overload	Overload	Overload	Overload	Overload
Dimensions	180mm	180mm	180mm	180mm	180mm	180mm	180mm	180mm	180mm
Weight	1.5kg	1.5kg	1.5kg	1.5kg	1.5kg	1.5kg	1.5kg	1.5kg	1.5kg



# Solar Charging Controller



MPPT controller technical parameters		
Model	MC4010P	MC4010N
System voltage	12V / 24V / 36V / 48V	12V / 24V / 36V / 48V
Nominal current	40A	40A
Charging mode	MPPT	MPPT
Applicable battery type	Sealed lead acid battery, GEL, lead acid battery, flooded lead acid battery	
Charging method	Three stages constant current, constant voltage, floating charge	
PV input maximum open circuit voltage (VOC)	60V	
Starting time	0.1s	
Dynamic response recovery time	0.1s	
Main power	40A	
Overall efficiency	98%	
System identified voltage	8V-48V	
Photovoltaic input voltage	Battery voltage + 1.50V	
Solar panel rated input power	12V	140W
	24V	180W
	36V	240W
	48V	320W
Load voltage	Same as the battery voltage (12V or 24V)	
Nominal load current	40A	40A
Load control method	Normally on/off mode	
Load control voltage protection	30.0V (N stands for battery number) Parameters can be adjustable	
Display	LED LCD backlight display	
Protection	Input and output over-voltage protection, input and output anti-reverse protection, over-temperature protection, load over-current protection	
Working temperature	-30°C ~ 60°C	
Storage temperature	-40°C ~ 70°C	
Automatic Restart (RS)	0.1s	
Warranty	3-5 Years	
Working altitude	0-3000m	
Dimensions (L*W*H)	180*180*110mm	
Net Weight (KG)	1.5kg	

## Portable Power Station



Model	PEP 600	PEP 600E	PEP 600C	PEP 1000	PEP 1500	PEP 2000	PEP 2000E	PEP 3000	PEP 3000E	PEP 3000C	
Weight	2.00kg (4.41lb)	2.10kg (4.63lb)	2.00kg (4.41lb)	3.00kg (6.61lb)	3.50kg (7.72lb)	4.00kg (8.82lb)	4.00kg (8.82lb)	5.00kg (11.02lb)	5.00kg (11.02lb)	5.00kg (11.02lb)	
Dimensions	220mm (8.66in)	220mm (8.66in)	220mm (8.66in)	260mm (10.24in)	300mm (11.81in)	350mm (13.78in)	350mm (13.78in)	400mm (15.75in)	400mm (15.75in)	400mm (15.75in)	
Capacity	600Wh	600Wh	600Wh	1000Wh	1500Wh	2000Wh	2000Wh	3000Wh	3000Wh	3000Wh	
Output Power	600W	600W	600W	1000W	1500W	2000W	2000W	3000W	3000W	3000W	
Charging Time	~8h	~8h	~8h	~8h	~8h	~8h	~8h	~8h	~8h	~8h	
Charging Ports	1x USB-C, 1x USB-A	1x USB-C, 1x USB-A	1x USB-C, 1x USB-A	1x USB-C, 1x USB-A	1x USB-C, 1x USB-A	1x USB-C, 1x USB-A	1x USB-C, 1x USB-A	1x USB-C, 1x USB-A	1x USB-C, 1x USB-A	1x USB-C, 1x USB-A	
Output Ports	1x AC, 1x DC	1x AC, 1x DC	1x AC, 1x DC	1x AC, 1x DC	1x AC, 1x DC	1x AC, 1x DC	1x AC, 1x DC	1x AC, 1x DC	1x AC, 1x DC	1x AC, 1x DC	
Protection	Overcharge, Overcurrent, Overvoltage, Overheat, Short Circuit	Overcharge, Overcurrent, Overvoltage, Overheat, Short Circuit	Overcharge, Overcurrent, Overvoltage, Overheat, Short Circuit	Overcharge, Overcurrent, Overvoltage, Overheat, Short Circuit	Overcharge, Overcurrent, Overvoltage, Overheat, Short Circuit	Overcharge, Overcurrent, Overvoltage, Overheat, Short Circuit	Overcharge, Overcurrent, Overvoltage, Overheat, Short Circuit	Overcharge, Overcurrent, Overvoltage, Overheat, Short Circuit	Overcharge, Overcurrent, Overvoltage, Overheat, Short Circuit	Overcharge, Overcurrent, Overvoltage, Overheat, Short Circuit	Overcharge, Overcurrent, Overvoltage, Overheat, Short Circuit
Warranty	24 Months	24 Months	24 Months	24 Months	24 Months	24 Months	24 Months	24 Months	24 Months	24 Months	



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# POWER Customization

## Monocrystalline Solar Module 10W-590W



### HIGH EFFICIENCY

Powerful N-type TOPCON cells  
Excellent module efficiency up to 22.84%.



### HIGH RELIABILITY

Superior craftsmanship, engineering excellence, and attention to the finest detail ensure longevity and optimal performance.



### HIGH RETURN ON INVESTMENT

Reduction of balance-of-system-costs through higher performance per module.



### EXTREMELY ENVIRONMENTAL TESTING

Remains peak performance in extreme environments.  
Class A fireproofing rating.



### STRENGTH AND DURABILITY

Certified for 5400Pa snow and 3600Pa loads test.  
Passed hail test with 25mm hail stones at 97 km/h.



# PHOTOVOLTAIC CABLE



Construction	Conductor Construction	Conductor OD	Cable OD	Max Resistance	Current Carrying Capacity at 60°C
mm <sup>2</sup>	mmmm	mm	mm	Ω/Km	A
1X4.0	56X0.3	2.35	6.10	5.08	55
1X6.0	84X0.3	3.20	7.20	3.39	70
1X10	142X0.3	4.60	9.00	1.95	98

The current-carrying capacity is under the situation of laying the single cable in air.

## Technical Data

Nominal voltage	DC:1.8KV AC:0.6/1.0KV
Voltage test on completed cable	AC:5.5KV DC:15KV/3MIN
Ambient temperature	-40°C~+90°C
Max. Temperature at conductor	+120°C
Service life	>25YEARS (-40°C~+90°C)
Acceptable temperature for short circuit for reference	200°C, 5S
Bending radius	>4×φ (D<8MM) >6×φ (D>8MM)
Resistance against acid and alkaline solution	EN60811-2-1
Cold bending test	EN60811-1-4
Sunlight resistance test	HD005/A1
Gross resistance test of finished cable	EN50396
Flame retardant test	EN60332-1-2



## Technical Data PV-CXLH0610-1

Insulation Material	PC or PV40Z
Contact Material	Red copper Tin Plated
Contact resistance	≤0.5m
Rated Voltage	PC 1000VDC or PV40Z 1500VDC
Rated Current	30A
Tensile resistance	100N
Temperature Range	-40~+85°C
Cable Range	2.5~5m <sup>2</sup>
Protection Degree	IP67
Safety Class	CLASS
Flame Class	UL94V0

# 12V GEL SERIES LEAD ACID BATTERY



## Applications:

- Solar and wind energy storage system
- EPS and UPS battery backup
- Signal system, emergency lighting system, security system
- Telecommunication equipment
- Power plant and transmission system

Model	Voltage(V)	Capacity(Ah)	Weight(KG)	Dimension(MM)				Terminal
				Length	Width	Height	Total Height	
GFM12V2.2	12	2.2	0.82	178	34	60	65	F1
GFM12V3.3	12	3.3	1.45	154	67	60	65	F1
GFM12V4	12	4	1.4	90	70	103	105	F1
GFM12V7	12	7	2.3	151	66	98	103	F2
GFM12V12	12	12	3.5	151	98	95	100	F2
GFM12V17	12	17	6	181	76	167	167	L
GFM12V20	12	20	6.5	181	76	167	167	M5
GFM12V24	12	24	8	175	165	125	125	L
GFM12V33	12	33	10	196	130	174	174	M5
GFM12V40	12	40	12	197	165	175	175	M6
GFM12V55	12	55	16	228	137	207	213	M6
GFM12V65	12	65	19.5	250	166	175	175	M8
GFM12V75	12	75	21.5	260	168	210	215	M6
GFM12V100	12	100	29	330	171	217	220	M8
GFM12V120	12	120	35	412	173	237	237	M8
GFM12V150	12	150	42	484	170	241	241	M8
GFM12V200	12	200	59	522	240	219	225	M8
GFM12V250	12	250	67	520	269	220	228	M8
GFM12V300	12	300	70	520	269	220	228	M8

# LITHIUM BATTERY



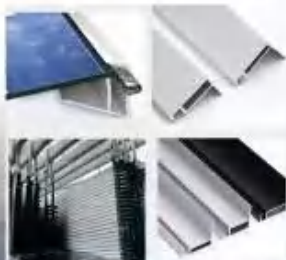
UL IEC ISO CE UN38.3 MSDS FCC RoHS

-  Core technology, High security
-  0°C low temperature technology
-  BMS
-  Bluetooth, WIFI, 4G, GPS
-  BMS multi-level
-  120V liquid cooling system
-  High Power wall pattern Energy
-  100W AC/DC energy storage



## Alum Frame

- 1) size: 17\*17, 20\*20, 23\*17, 25\*25, 28\*25mm, etc...
- 2) 30\*25, 35\*30mm, suitable for 30-100W solar modules;
- 3) 35\*35mm, suitable for 80-180W solar modules, the length is generally 1580\*808mm
- 4) 40\*35mm, suitable for 120-200W solar modules, the length is generally 1580\*808mm;
- 5) 45\*35mm, suitable for 180-250W solar modules, the length is generally 1580\*808 and 1650\*992mm.



- 6) 50\*35mm, suitable for 200-300W solar modules, the length is generally 1650\*992 and 1860\*992mm;
- 7) Many other special sizes customized according to customer requirements, such as 40\*28mm, 40\*30mm, 42\*35mm, 48\*30mm, 48\*35mm, 48\*40mm, 48\*48mm, 48\*50mm, 48\*60mm, 60\*35mm Wait.

