

2pcs
in
series

12kw 48V off grid system



AC input: city power to work
when battery not enough

2pcs in series with PV combiner
PV combiner in series with
PV combiner and battery
Battery in series with

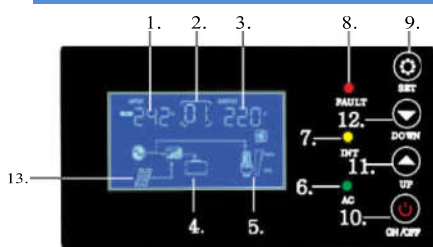


Hybrid Solar Inverter

Feature:

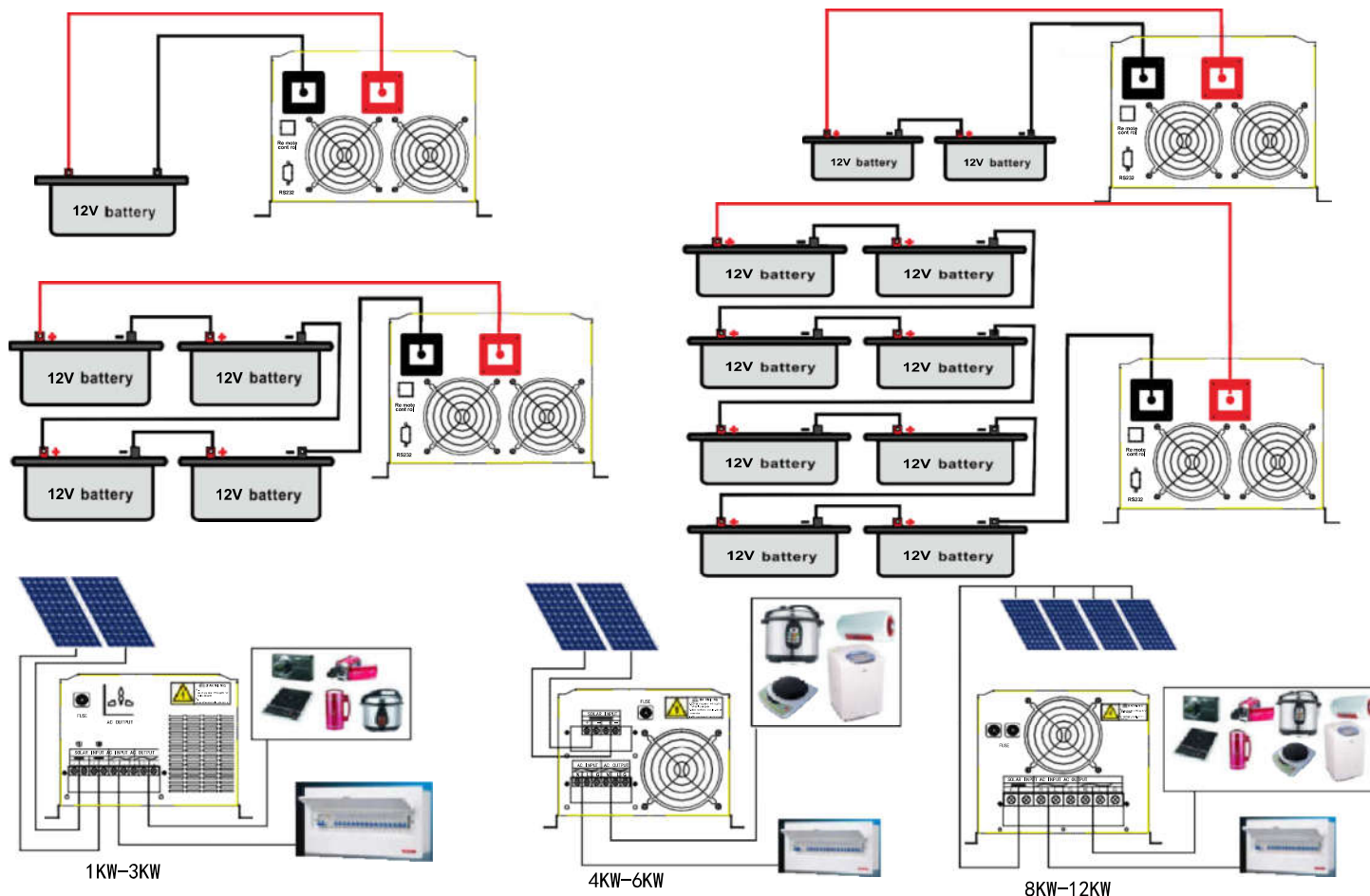
- Pure sine wave output
- With MPPT solar charge controller 30A-100A (Optional) With
- UPS automatic switching function, grid power charging function, AVR voltage stabilization function
- It has perfect protection functions such as overload, high voltage, low voltage, short circuit, etc
- DSP Intelligent Chip Control, Excellent Performance
- Strong inverting capability, one-time soft start, triple output peak power, with all inductive loads
- Full personalized LCD display, it can display various data information of inverter, solar charge controller
- ▣ Grid power priority, energy saving mode and solar energy priority can be set freely to meet different occasions
- ▣ Battery type, charging voltage grid power charging current (0-35A) can be set freely to meet the charging management of different types of batteries

LCD Display Information



NO	LCD Display	Contents Descriptions
1.	INPUT	AC Input
2.	(01)	Working mode code
3.	OUTPUT	AC Output
4.	BATT	Battery capacity
5.	LOAD 25%~100%	Load output percentage
6.	AC	AC indicator
7.	INVERTER	Inverter indicator
8.	FAULT	Fault indicator
9.	SET	SET button
10.	ON/OFF	ON/OFF button
11.	UP	UP button
12.	DOWN	DOWN button
13.		PV Input

Solar System Connection



Specification

Model		1000W	2000W	3000W	4000W	5000W	6000W	8000W	10000W	12000W
Default battery system voltage (VDC)		12VDC/24VDC/48VDC			24VDC/48VDC/96VDC			48VDC/96VDC		
Inverter Output	Rated power	1000W	2000W	3000W	4000W	5000W	6000W	8000W	10000W	12000W
	Surge rating (20ms)	3000W	6000W	9000W	12000W	15000W	18000W	24000W	30000W	36000W
	Capable of starting electric Motor	0.5HP	1HP	2HP	2HP	3HP	3HP	4HP	5HP	6HP
	Wave form	Pure sine wave/ Same as input (AC mode)								
	Nominal output voltage RMS	110/120VAC 220/230/240VAC(±10RMS)						220/230/240VAC(±10RMS)		
	Output frequency	50Hz60Hz±0.3Hz								
	Inverter efficiency(Peak)	>85%								
	Line mode efficiency	>95%								
	Typical transfer time	8ms(Max)								
	Built-in AVR stabilizer(AC voltage)	110/120/220/230/240VAC			220/230/240VAC			-----		
AC Input	Voltage	110/120VAC 220/230/240VAC						220/230/240VAC		
	Selectable voltage range	85-138VAC(AC:110)			170-275VAC(AC:220)			180-260VAC(AC:220)		
	Frequency range	50Hz:45-65Hz 60Hz:55-65Hz 50Hz/60Hz(Auto sensing)								
Battery	Low battery protection	10VDC±0.3V (12VDC),20VDC±0.3V (24VDC),40 VDC±0.3V (48VDC),80 VDC±0.3V (96VDC)								
	Low battery cutoff	10.5VDC±0.3V (12VDC),21VDC±0.3V (24VDC),42 VDC±0.3V (48VDC),84VDC±0.3V (96VDC)								
	High Battery alarm	15VDC±0.3V (12VDC),30VDC±0.3V (24VDC),60 VDC±0.3V (48VDC),120 VDC±0.3V (96VDC)								
	High Battery protection	16.5VDC±0.3V (12VDC),33VDC±0.3V (24VDC),66VDC±0.3V (48VDC),132VDC±0.3V (96VDC)								
AC Charger	Maximum charge current	0-35A(Set by yourself)								
Protection	Over load protection	Rated power over 110%,shut down automatically								
	Temperature protection	Built-in temperature sensor real-time induction, ≥85 alarm, ≥85 shut down the whole machine								
	Short circuit protection	Automatic Shutdown								
Solar Charge Controller	Max solar charging current	30A,40A,50A,60A,80A						50A,60A,100A,120A		
	Voltage	12V,24V,48V,96V								
	Max PV input power	12V-30A:360W,12V-50A:600W,12V-60A:720W,12V-80A:960W,12V-100A:1200W,12V-120A:1440W								
		24V-30A:720W,24V-50A:1200W,24V-60A:1440W,24V-80A:1920W,24V-100A:2400W,24V-120A:2880W								
		48V-30A:1440W,48V-50A:2400W,48V-60A:2880W,48V-80A:3840W,48V-100A:4800W,48V-120A:5760W								
		96V-50A:4800W,96V-60A:5760W,96V-100A:9600W,96V-120A:11520W								
	PV array MPPT voltage range	12V:18V-100V,24V:36V-100V,48V:72V-150V,96V:144V-280V								
Peak conversion efficiency	>99%									
Other	Mounting	Wall mount								
	Display	LCD+LED								
	Cooling fan	Intelligent fan cooling system								
	Audible noise	<60dB								
	Communications	RS-232,SNMP(Optional)								
	Operation temperature range	-10°C~70°C								
	Storage temperature	-10°C~60°C								
Appearance	Product size(L*W*H)	500*365*150mm			560*360*180mm			500*300*620mm		
	Packing size(L*W*H)	575*365*165mm			670*450*250mm			595*395*740mm		
	Net weight(Kg)	16	19	22	31	35	36	55	61	67
	Gross weight(Kg)	18	21	24	34	38	39	59	65	71

* Product specifications are subject to change without further notice.



Foshan Mars Solar Technology Co.,Ltd



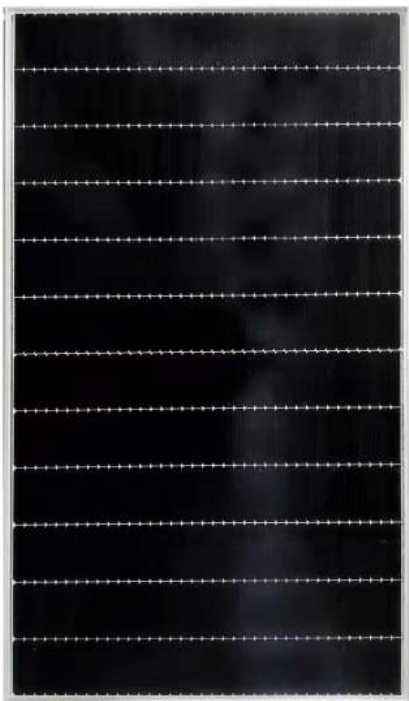
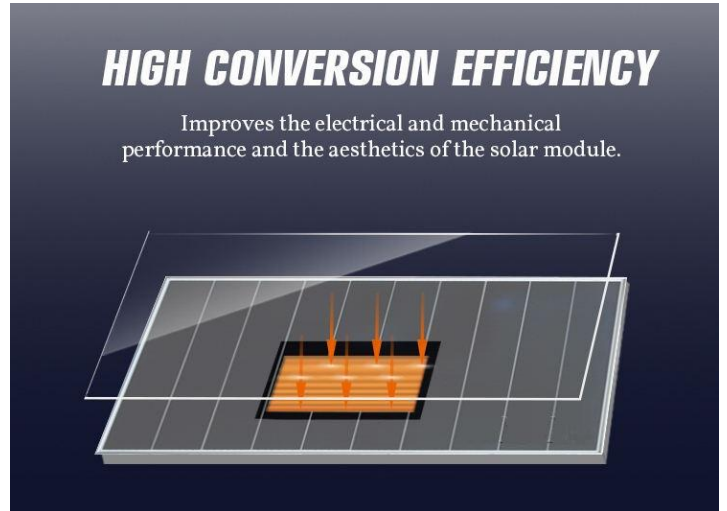
Shingled technology:Provides higher module efficiency under low irradiance conditions(21%-22%), and achieves greater installation capacity in a limited space.



Low hot spot effect:The unique multi-slicing and paralleling method effectively reduces the high temperature caused by shadow coverage, which has a great impact on reliability.



Anti-LID/PID:To ensure higher actual benefits during the loading period.



IP67 Junction Box, Connector

IP67 Junction Box and Connector have a high degree of waterproof, effectively resist the harsh environment



15A current

The junction box carries a current of 15A, ensuring high current flow through the modules



Super strong frame

Glue-spilled tank has a double-layer waterproof, cross-section with hook-shaped aluminum frame,enhanced by 10% of the mechanical load strength



Current division

The module refines the current division, thus effectively reducing the loss of up to 2% due to mismatch and increasing the power output of the system



Salt spray, Ammonia and PID test

resistanceExcellent salt spray ,anti-ammonia and anti PID, TUV, SUD certification approved



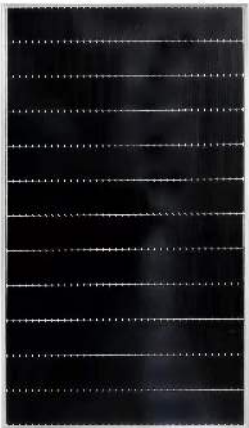
Strong Mechanical load capacityPassed the 2400pa wind load and 5400pa snow load test, ensuring that the module has a stable mechanical life



Color Classification

Modules are packaged according to color classification, to achieve consistent appearance after installation



	Model	NM600
	Max Working Power	600W
	Max Power voltage(V)	39.50V
	Max Power current(A)	15.55A
	Open Circuit voltage(V)	48.08V
	Short Circuit current(A)	16.01A
	Maximum System Voltage	1500V
	Max.series fuse rating	25A
	Weight	27.4KG
	Size	2158*1236*35MM
	Test Conditions	Radiance 1000 W/m ² ; AM 1.5; Ambient temperature 25℃

Installation feedback from clients



6KW Solar Power System In Lebanon



6KW three phase on grid system in Sint Maarten