

# HYBRID INVERTER

5KW 48V | 8KW 48V

**SPLIT PHASE / SINGLE PHASE INVERTER**



## Inverter Features

### AC Coupled

Update existed solar on-grid system to hybrid

### Smart Load

Use Gen input as crucial load output

### BMS

Compatible with PYLONTECH, LG, BYD etc brand battery

### Multiple Output

120V/240V Split phase, 220V Single phase

### Protections

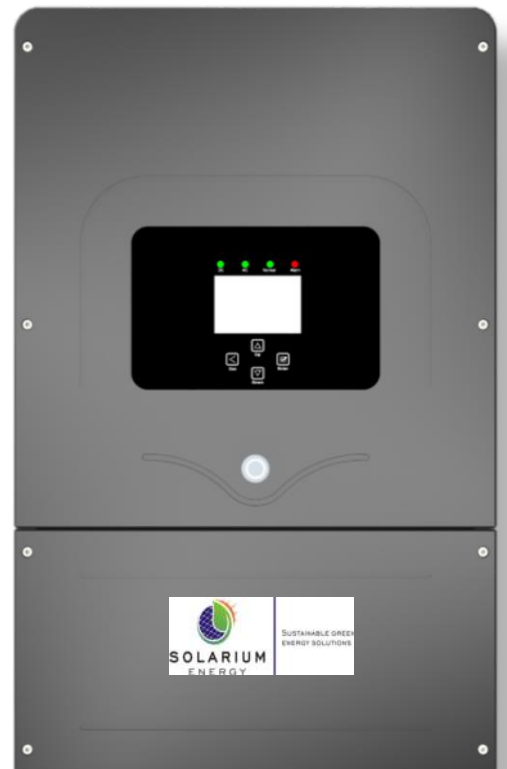
PV rapid shutdown control, PV Arc Fault detection, PV input lightning protection

### Multiple Working Modes

Grid Tied, Hybrid or OFF Grid. Simultaneously manages power to/from Solar, Battery, Grid, Load and Generator

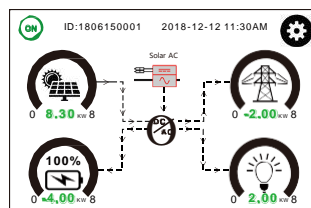
### Additional Feature

UPS time less than 5ms. Six stages time of use setting. Charge and discharge up to 190A 8KW (125A 5KW), Load or home power first with zero export to grid.



## Colour Touchscreen Display

Touchscreen interface as easy to understand as your phone. Simultaneously manages power to/from Solar Panels, Batteries, Grid, Load, and Generator.



## Contact Us

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## TECHNICAL DATA

5KW OHM - 48V

8KW OHM – 48V

<b>Battery Input Data</b>	Battery Type	Sirius Supercapacitor, Lead-acid or Li-Ion	
	Battery Voltage Range (V)	40V-60V	
	Max.Charging Current (A)	120A	190A
	Max.Discharging Current (A)	120A	190A
	Charging Curve	3 Stages/Equalization	
	External Temperature Sensor	Optional	
	Charging Strategy for Li-Ion Battery	Self-adaption to BMS	
<b>PV String Input Data</b>	Max.DC Input Power (W)	6500W	10400W
	Max.DC Input Voltage (V)	500V	
	MPPT Range (V)	150V – 425V	
	Start-up Voltage (V)	150V	
	Max.Input Current (A)	11A+11A	18A+18A
	No.of MPPT Trackers	1	2
	No.of Strings Per MPPT Tracker	1/1	2/2
<b>AC Output Data</b>	Rated AC Output and UPS Power (W)	5000W	8000W
	Peak Power(off grid)	2 times of rated power, 10 S	
	Max.AC Current(A)	20.8A	33A
	Output Frequency and Voltage	50/60Hz; 120Vac&240Vac(split phase), 230Vac(single phase)	
	Grid Type	Split phase/Single Phase	
	Current Harmonic Distortion	THD<3%(Linear load<1.5%)	
<b>Efficiency</b>	Max.Efficiency	97.60%	
	Euro Efficiency	97.00%	
	MPPT Efficiency	99.90%	
<b>Protection</b>	PV Arc Fault Detection	Integrated (Except European Type)	
	PV Input Lightning Protection	Integrated	
	Anti-islanding Protection	Integrated	
	PV String Input Reverse Polarity Protection	Integrated	
	Insulation Resistor Detection	Integrated	
	Residual Current Monitoring Unit	Integrated	
	Output Over Current Protection	Integrated	
	Output Shorted Protection	Integrated	
	Output Over Voltage Protection	Integrated	
<b>Certifications and Standards</b>	Grid Regulation	UL1741,IEEE1547,VDE-ARN 4105, VDE0126	
	Safety Regulation	IEC62109-1&2, IEC62040-1	
	EMC	EN61000-6-1, EN61000-6-3, FCC 15 class B	
<b>General Data</b>	Operating Temperature Range (°C)	-25~60°C, >45°C Derating	
	Cooling	Fan	
	Noise (dB)	<30	
	Communication with BMS	RS485; CAN	
	Weight (kg)	32KG	
	Size (Length*Width*Height mm)	680*420*233mm	
	Protection Degree	IP65	
	Installation Style	Wall-mounted	
Warranty	5 years		