



SUNRAY

# Hybrid Inverter-Split Phase 5K~10K



## Product Features

- Compatible with most common low-voltage batteries (lead-acid & lithium)
- Parallel capacity is up to 9 units
- Remote upgrade and configuration; safety-related functions integrated; easy for cooperating with BMS
- European version supports external remote shutdown device
- UL version is integrated with Rapid Shutdown Device, and it can output 100% load power under back-up mode



	5KW-H1-UL	6KW-H1-UL	7.6KW-H1-UL	10KW-H1-UL
<b>Battery Input Data</b>				
Battery Type	Li-ion / Lead-acid	Li-ion / Lead-acid	Li-ion / Lead-acid	Li-ion / Lead-acid
Nominal Battery Voltage (V)	48	48	48	48
Battery Voltage Range (V)	40~64	40~64	40~64	40~64
Max. Charge/Discharge Current (A)	210/130	210/130	210/180	210/210
Max. Charge/Discharge Power (W)	10000/5000	10000/6000	10000/7600	11400/11400
<b>PV String Input Data</b>				
Max. Array Input Power (W)	75000	9000	12000	15000
Max. DC Input Voltage (V)	600	600	600	600
Nominal DC Input Voltage (V)	360	360	360	360
Start-up Voltage (V)	90	90	90	90
MPPT Voltage Range (V)	70~540	70~540	70~540	70~540
Max. Input Current per MPPT (A)	30/22	30/22	30/22/22	30/22/22
Max. Short-circuit Current per MPPT (A)	40/30	40/30	40/30/30	40/30/30
No. of MPPT	2	2	3	3
No. of Strings per MPPT	2	2	2	2
<b>AC Input Data</b>				
Nominal Input Apparent Power (VA)	5000	6000	7600	10000
Max. Input Apparent Power (VA)	7500	8000	7600	11400
<b>AC Output Data (on-grid)</b>				
Nominal Output Active Power (W)	5000	6000	7600	10000
Nominal Output Apparent Power (VA)	5000	6000	7600	10000
Max. Output Apparent Power (VA)	5500	6600	7600	11400
Nominal Output Voltage (V)	120V/240V (Split phase) /208V (2/3 phase)			
Nominal Output Frequency (Hz)	50/60			
Output Frequency Range (Hz)	45-65(Ajustable)			
Max. Output Current (A)				
Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)			
THDi	<3%	<3%	<3%	<3%
<b>Back-up Output Data</b>				
Nominal Output Apparent Power (VA)	5000	6000	7600	10000
Max. Output Apparent Power (VA)				
Nominal Output Voltage (V)	120V/240V(Split phase) /208V (2/3 phase)			
Nominal Output Frequency (Hz)	50/60			
Nominal Output Current (A)				
Transfer Time (ms)	10(typ) / 20(max)			
THDv @ Linear Load	<3% @ 100% R Load			
<b>Efficiency</b>				
Max. Efficiency	98%	98%	98%	98%
Battery Discharge to AC Efficiency	94.50%	94.50%	94.50%	94.50%
<b>Protection</b>				
PV Reversed Polarity Protection				Yes
Residual Current Monitor				Yes
PV Over Voltage Protection				Yes
PV Over Current Protection				Yes
Anti-islanding Protection				Yes
DC Surge Protection				Type II
AC Surge Protection				Type II
Insulation Resistor Detector				Yes
Output Over Current Protection				Yes
Output Short Circuit Protection				Yes
Output Over Voltage Protection				Yes
Generator				Yes
AFCI				Yes
Remote Shutdown				Yes
Rapid Shutdown				Yes
<b>General</b>				
Operating Temperature Range (°C)				-25~60(>45°C derating)
Relative Humidity				0~100% LED+APP, LCD(optional)
Max. Operating Altitude (m)				2000
Cooling Method				Fan Cooling
User Interface				
Communication	RS485/CAN (for BMS), RS485, DRM/RS485 (for Meter), Optional: WiFi/LAN			
Weight (kg)				40
Dimension (W*H*D mm)				420*800*240
Topology				Transformerless
Ingress Protection Rating				IP65
Mounting Method				Wall Bracket