



Hybrid Inverter - Single Phase 3.6K~6K



Product Features

- Compatible with most common low-voltage batteries (lead-acid & lithium)
- Max charging/discharging current up to 120A
- The typical switch time between on-grid mode and back-up mode is 10ms
- Remote upgrade and configuration; safety-related functions integrated; easy for cooperating with BMS
- IP65 protection to ensure the inverter can work under various environmental conditions
- Easily installed in the residential site

	SRP-3.6KRS-H1	SRP-4.6KRS-H1	SRP-5KRS-H1	SRP-6KRS-H1
Battery Input Data				
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)	40~65	40~65	40~65	40~65
Max. Charge/Discharge Current (A)	60/60	120/120	120/120	120/120
Max. Charge/Discharge Power (W)	3000/3000	4600/4600	5000/5000	6000/6000
PV String Input Data				
Max. Array Input Power (W)	6300	9000	9000	9000
Max. DC Input Voltage (V)	550	550	550	550
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)	15/15	15/15	15/15	15/15
Max. Short-circuit Current per MPPT (A)	20/20	20/20	20/20	20/20
No. of MPPT	2	2	2	2
No. of Strings per MPPT	1	1	1	1
AC Input Data				
Nominal Input Apparent Power (VA)	3600	4600	5000	6000
Max. Input Apparent Power (VA)	6300	9000	9000	9000
Max. Input Current (A)	29	41	41	41
AC Output Data (on-grid)				
Nominal Output Active Power (W)	3600	4600	5000	6000
Nominal Output Apparent Power (VA)	3600	4600	5000	6000
Max. Output Apparent Power (VA)	3960	5060	5500	6600
Nominal Output Voltage (V)	220/230/240	220/230/240	220/230/240	220/230/240
Output Voltage Range (V)	150-300(Adjustable)			
Nominal Output Frequency (Hz)	50/60			
Output Frequency Range (Hz)	45-65(Ajustable)			
Max. Output Current (A)	16	22	25	27.2
Power Factor	~ 1 (Adjustable from 0.8 leading to 0.8 lagging)			
THDi	<3%	<3%	<3%	<3%
Back-up Output Data				
Nominal Output Apparent Power (VA)	3600	4600	5000	6000
Max. Output Apparent Power (VA)	3960	5060	5500	6600
Nominal Output Voltage (V)	230	230	230	230
Nominal Output Frequency (Hz)	50/60	50/60	50/60	50/60
Max. Output Current (A)	18	23	25	30
Transfer Time (ms)	10(typ) / 20(max)	10(typ) / 20(max)	10(typ) / 20(max)	10(typ) / 20(max)
THDv @ Linear Load	<3% @100% R Load			
Efficiency				
Max. Efficiency	97.30%	97.30%	97.30%	97.30%
Battery Discharge to AC Efficiency	94.30%	94.30%	94.30%	94.30%
Protection				
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 III			
AC Surge Protection	Type III			
Insulation Resistor Detector	Yes			
Output Over Current Protection	Yes			
Output Short Circuit Protection	Yes			
Output Over Voltage Protection	Yes			
General				
Operating Temperature Range (°C)	-25~60(>45°C derating)			
Relative Humidity	0~100%			
Max. Operating Altitude (m)	4000			
Cooling Method	Natural Cooling			
User Interface	APP + LED			
Communication	RS485/CAN (for BMS), RS485, USB, DRM/RS485 (for Meter), Optional: WiFi/GPRS/LAN			
Weight (kg)	20	25	25	25
Dimension (W*H*D mm)	515*485*175			
Topology	Transformerless			
Ingress Protection Rating	IP65			
Mounting Method	Wall Bracket			