

Single Phase Hybrid Inverters 3 to 6 kw

RV-H-S2 Series



Easy-to-install

- Quick & easy-to-install with basic tools
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Reliable

- Smart energy management
- UPS capability - power during blackouts
- IP66 rated design for outdoor use



User-friendly

- Online monitoring via Wi-Fi and ApolloGrid apps
- User friendly app interface
- Easy to connect-battery and smart meter interfaces
- Shadow Optimization Management system

RV-H-S2 Series

Model	RV3680H-S2	RV5000H-S2	RV6000H-S2
PV Input			
Max. PV Array Power	6180 Wp STC	7500 Wp STC	9000 Wp STC
Max. Input Voltage		550 V	
Rated Input Voltage		385 V	
MPPT Operating Voltage Range		45 V ~ 530 V	
Max. Operating Input Current		16 A	
Max. Short-circuit Current		20 A	
No. of MPP Trackers		2	
No. of Strings Per MPP Tracker		1	
Battery Input			
Rated Voltage		48 V / 51.2 V	
Battery Voltage Range		40 ~ 60 V	
Max Charging / Discharging Power		5000 W / 5000 W	
Max Charging / Discharging Current		100 A / 100 A	
Cell Type		LFP (LiFePO4)	
AC Output			
Rated Output Power	3680 W	5000 W	6000 W
Rated Apparent Power	3680 VA	5000 VA	6000 VA
Max. Apparent Power	3680 VA	5000 VA	6000 VA
Rated AC Voltage		220 V / 230 V / 240 V	
AC Voltage Range		180 V ~ 280 V	
Rated AC Grid Frequency		50 Hz / 60 Hz	
Max. Output Current	16 A	22.7 A	27.3 A
Adjustable Power Factor		~1	
Grid Connection		1-Phase	
Max. Total Harmonic Distortion (THDI)		≤ 3 %	
AC Input			
Rated Grid Voltage		230 V	
Rated Grid Frequency		50Hz / 60Hz	
Max. Input Apparent Power From Grid		6000 VA	
Max. Input Current		27.3 A	
Efficiency			
MPPT Efficiency		99.90%	
Max. Efficiency		97.60%	
European Efficiency		97.00%	
Max. Battery To Load Efficiency		94.70%	
EPS / Backup AC Output			
Rated Output Voltage		230 V	
Peak Output Apparent Voltage		7500 VA, 10 s	
Max Switch Time		≤ 10 ms	
Rated Current / Max Current		21.7 A	
Protection			
DC Switch		Yes	
Anti-Islanding Protection		Yes	
DC Reverse Polarity Protection		Yes	
AC Short-circuit Protection		Yes	
DC Surge Protection		Type II	
AC Output Over-current Protection		Yes	
AC Output Over-voltage Protection		Yes	
Residual-current Monitoring Unit		Yes	
Ground Fault Monitoring		Yes	
General Data			
Dimensions (W x H x D)		483 x 455 x 193.5 mm	
Weight		25.1 kg	
Operating Temperature Range		-25 ~ +60 C	
Self-consumption (at night)		< 10 W	
Topology		Transformerless	
Cooling		Natural Convection	
Ingress Protection		IP66	
Climatic Category		Class 4K4H	
Relative Humidity		0~100%	
Max. Operating Altitude		4,000 m	
DC Connection		Plug-in Connector	
AC Connection		Plug-in Connector	
Mounting Type		Wall-mount Bracket	
Display		LED Indicator + APP	
Communication Interface		Wi-Fi / CAN / RS485	