

Single Phase Hybrid Inverters 3 to 6 kW

RV-H-S2 Series

RV3000H-S2 / RV3680H-S2
RV4000H-S2 / RV5000H-S2
RV6000H-S2



Easy-to-install

- Quick & easy-to-install with basic tools
- Quick setup and commissioning with Rahvolt apps
- Compact wall mount design



Reliable

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



User-friendly

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

RV-H-S2 Series

Model:	RV3000H-S2	RV3680H-S2	RV4000H-S2	RV5000H-S2	RV6000H-S2
PV Input					
Max. PV Array Power	5500 Wp STC	6180 Wp STC	6500 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	3000 W	3680 W	4000 W	5000 W	6000 W
Rated Apparent Power	3000 VA	3680 VA	4000 VA	5000 VA	6000 VA
Max. Apparent Power	3000 VA	3680 VA	4000 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 / 45 Hz to 55 Hz, 60 Hz / 55 Hz to 65 Hz				
Max. Output Current	13.6 A	16 A	18.2 A	22.7 A	27.3 A
Adjustable Power Factor	~1 (Adjustable from 0.8 Leading to 0.8 Lagging)				
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	Compatible with TYPE II Protection Class according to EN/IEC 62109-1				
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 according to IEC 60721-3-4				
Relative Humidity	0~100%				
Max. Operating Altitude	4,000 m (13,123 ft.) (Derating above 2000 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				