

# Single phase hybrid inverters



Models:  
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

- User friendly app interface
- Online monitoring via Wi-Fi and Rahvolt apps
- Easy to connect - battery and smart meter interfaces
- ShadeSol shadow management

## Technical Datasheet

	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	9000 Wp STC	
	Max. input voltage	550 V				
	MPP voltage range / rated input voltage	40 V to 530 V / 380 V				
	No. of independent MPPT trackers / strings per MPPT input	2 / 1				
	Max. input current per MPP tracker	16 A				
Battery input	Max. short-circuit current per MPP tracker	20 A				
	Nominal battery voltage	48 V/51.2V				
	Battery voltage range	40 V to 60 V				
	Max. charging / discharging power	5000 W / 5000 W				
	Max. charging current / Max. discharging current	100 A / 100A				
Compatible Battery	LiFePO4					
AC output	AC voltage range / Nominal AC voltage	180 V to 280 V / 230 V				
	Rated AC grid frequency	50 Hz / 60 Hz				
	Rated apparent power	3000 VA	3680 VA	4000 VA	5000 VA*1	6000 VA
	Max. apparent power	3000 VA	3680 VA	4000 VA	5000 VA*1	6000 VA
	Rated grid output Current (@230V)	13.1 A	16 A	17.4 A	21.7 A**	26.1 A
AC input	Max. grid output current	13.6 A	16 A	18.2 A	22.7 A**	27.3 A
	Rated grid voltage	a.c. 230V				
	Rated grid frequency	50Hz / 60Hz				
	Rated apparent power	6000 VA				
	Max. input apparent power from grid	6000 VA				
EPS output	Max. input current from grid	a.c. 27.3 A				
	Nominal output voltage	230 V				
	Nominal output frequency	50 Hz / 60 Hz				
	Rated apparent power	5000 VA				
	Max. output apparent power	5000 VA				
Efficiency	Peak output apparent power	7500 VA, 10s				
	Rated Current (@230V)	21.7A				
	Max. output current	21.7A				
	Max. switch time	≤ 10 ms				
	Output THDi (@ Linear load)	<3%				
Safety protection	MPPT efficiency	99.90%				
	Euro efficiency / Max. efficiency	97% / 97.6%				
	Max. battery to load efficiency	94.70%				
	DC-side disconnection device	●				
	PV string- / Battery input reverse polarity protection	● / ●				
General data	All-pole sensitive residual current monitoring unit	●				
	Anti-islanding protection	●				
	Ground fault protection	●				
	AC output over current / short circuit current protection	● / ●				
	AC over voltage protection	●				
Features	Protection class (as per IEC 62109-1) / overvoltage category (as per IEC 62109-1)	I / AC: III; DC: II				
	Power factor at rated power / adjustable displacement	≥0.99 / 0.8 leading to 0.8 lagging				
	Dimensions (W / H / D)	483 / 455 / 193.5 mm				
	Device weight	25.1kg				
	Operating temperature range	-25 °C ... +60 °C				
Safety protection	Noise emissions (typical)	30 dB(A)				
	Standby consumption	<10 W				
	Cooling concept	Natural convection				
	Degree of protection (as per IEC 60529)	IP66				
	Climatic category (according to IEC 60721-3-4)	4K4H				
General data	Max. permissible value for relative humidity (non-condensing)	100%				
	Max. operating altitude	4000m (>3000m power derating)				
	User interface	LED & App				
	Communication with BMS	RS485 / CAN				
	Communication with meter	RS485				
Features	Communication with portal	WIFI stick				
	Integrated power control / Zero export control	● / ●				

● Standard features / ○ optional features / – not available

\*1 For VDE-AR-N4105, Smax=S<sub>n</sub>=4600VA, P<sub>n</sub>=4600W

\*\* For AS/NZS4772.2, I<sub>ac</sub> max=21.7