

3-Phase hybrid inverters 5 to 6 kW

RVkH-T2 Series

RV05kH-T2 / RV06kH-T2



Easy-to-install

- Convenient battery and ammeter Interfaces
- 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
- 150% PV array oversizing for higher yields



User-friendly

- Smart set for work mode and battery management
- User friendly app interface
- Max 20A output match 210/182 modules

RVkH-T2 Series

Model:	RV 05kH-T2	RV 06kH-T2
PV Input		
Max. PV Array Power	7500 Wp STC	9000 Wp STC
Max. Input Voltage	1100 V	
Rated Input Voltage	595 V	
MPPT Operating Voltage Range	155 V ~ 950 V	155 V ~ 950 V
Start-up Voltage	180 V	
Max. Operating Input Current	20 A	
Max. Short-circuit Current	30 A	
No.of MPP Trackers	2	
No.of Strings Per MPP Tracker	1	
Battery Input		
Battery Voltage Range	120 V ~ 600 V	
Max Charging / Discharging Power	5000 W	6000 W
Max Charging / Discharging Current	30 A	
Cell Type	LFP (LiFePO4)	
AC Output		
Rated Output Power	5000 W	6000 W
Rated Apparent Power	5000 VA	6000 VA
Max. Apparent Power	5000 VA	6000 VA
Rated Output Current	7.3 A	8.7 A
Max. Output Current	8.0 A	9.6 A
Rated AC Voltage	220 / 380 V, 230 / 400 V, 240 / 415 V	
AC Voltage Range	270 V ~ 480 V / 3L/N/PE	
Rated AC Grid Frequency	50 Hz / 60 Hz	
Adjustable Power Factor	~1 (Adjustable from 0.8 Leading to 0.8 Lagging)	
Grid Connection	3-Phase	
Max. Total Harmonic Distortion (THDi)	≤ 3 %	
AC Input		
Rated Grid Voltage	3L/N/PE, 220 / 380 V, 230 / 400 V, 240 / 415 V	
Rated grid frequency	50Hz / 60Hz	
Max. Input Power From Grid	10000 W	12000 W
Max. Input Current	8.0 A	9.6 A
Efficiency		
MPPT Efficiency	99.90%	
Max. Efficiency	98%	98.2%
European Efficiency	97.2%	97.5%
Max. Battery To Load Efficiency	94.70%	
EPS / Backup AC Output		
Rated Output Voltage	3L / N / PE, 220 / 380 V, 230 / 400 V, 240 / 415 V	
Peak Output Appearant Power	10000 W, 10 s	12000 W, 10 s
Max Switch Time	≤10 ms	
Rated Current (@ 400V)	7.3 A	8.7 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 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)	545 mm x 465 mm x 205 mm	
Weight	24.5 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 / LAN / CAN / RS485	