

## Technical Date

<b>Model Number</b>	<b>RHS-6K-H</b>
<b>PV INPUT</b>	
Max. Recommended PV Power	9300W
Max. Input Voltage	600V
Start-up Voltage	120V
Min. Operating Voltage	90V
Rated Input Voltage	360V
MPPT Operating Voltage Range	90-580V
MPPT Voltage Range at Rated Power	221-450V
Max. Input Current per MPPT	14A
Max. Short-circuit Current per MPPT	20A
Max. Backfeed Current to the Array	0
Number of MPP Trackers	3
Number of Strings per MPPT	1
<b>BATTERY INPUT</b>	
Compatible Battery	RCT Power Battery
Battery Type	LiFePO <sub>4</sub>
Number of Battery Input	2
Battery Voltage Range	120-520V
Max. Charge / Discharge Current	25A / 25A
Max. Charge / Discharge Power	11000W / 6000W
<b>AC INPUT/OUTPUT (On-grid)</b>	
Rated Input Apparent Power	3000VA
Max. Input Apparent Power	3000VA
Rated Output Power	6000W
Rated Output Apparent Power	6000VA
Max. Output Power	6000W
Max. Output Apparent Power	6000VA
Rated AC Voltage	230V, L/N/PE
AC Voltage Range	184-265V
Rated Grid Frequency	50 Hz
Grid Frequency Range	45-55 Hz
Max. Output Current (@230V)	26.1 A
Max. Input Current from Grid	13A
Power Factor at Rated Power	>0.99
Adjustable Power factor	0.8 leading - 0.8 lagging
Total Harmonic Distortion	<3% at rated power
<b>AC OUTPUT (Back up*1)</b>	
Max. Output Apparent Power	6000VA*2

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Rated Output Voltage	230V, L/N/PE
Rated Output Frequency	50Hz
<b>PROTECTION</b>	
PV String Current Monitoring	Integrated
PV Insulation Monitoring	Integrated
Residual Current Monitoring	Integrated
DC Reverse Polarity Protection	Integrated
Anti-Islanding Protection	Integrated
AC Short-circuit Protection	Integrated
AC Overcurrent Protection	Integrated
AC Overvoltage Protection	Integrated
DC Switch	Integrated
DC Surge Protection	Type II
AC Surge Protection	Type III
<b>EFFICIENCY</b>	
MPPT Efficiency	99.9%
Max. Efficiency	97.1%
European Efficiency	96.6%
Max. Efficiency (BAT to AC)	97.1%
Max. Efficiency (PV to BAT)	98.0%
<b>GENERAL</b>	
Operating Temperature Range	-25°C~+60°C (Derating above +45°C)
Relative Operating Humidity	0%-100% RH
Max. Operating Altitude	4000m
Cooling Method	Natural Convection
Topology	Non-isolated
Noise emission	<30dB
Degree of Protection	IP65
Environmental category	4K4H
Standby consumption	<5W
Display	LED Indicator; WLAN+APP
Communication	RS485 / CAN / Wi-Fi / LAN
DC Connection	Phoenix XLIX (PV) / Weidmüller WM4 (Battery)
AC Connection	Quick connection plug
Dimensions (W×H×D)	605×445×165mm
Weight	22kg
Type of installation	Wall-mounting bracket
Pollution Degree	3
Overvoltage Category	II (DC) / III (AC)
Protection Class	I
PV, Battery and AC port	DVCC

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<b>Model Number</b>	<b>RHS-6K-H</b>
Communication port	DVCA
Active Anti-islanding Method	Active frequency drift (AFD)
Country of manufacture	China
<b>SAFETY / STANDARDS*3</b>	
Safety	IEC62109-1&2
Grid support regulation	EN 50549-1, RD1699/661, UTE C15-712-1(A), G99, CEI 0-21, AS/NZS4777.2
EMC	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4, EN 61000-4-16, EN 61000-4-18, EN 61000-4-29
<p>* 1: Backup power output via RCT back-up power switch box;</p> <p>* 2: Need to use 3~6 pcs power battery stacks;</p> <p>* 3: Not all certifications &amp; standards listed, check the official website for details.</p>	