

REVO residential energy storage inverters

Three-phase hybrid inverter

Supports high power components



KEY STRENGTHS

- Support BMS (RS485) remote upgrade.
- Support full power discharge, automatic battery charge and discharge management.
- Compatible with single-phase and three-phase loads.
- Support 100% unbalanced load output.
- Support high power components.

Model	R6KH3-P	R8KH3-P	R10KH3-P	R12KH3-P	R15KH3-P
PV input data					
Max. PV input power (kW)	9	12	15	18	22.5
Max. PV input voltage (V)				1000	
Min. PV input voltage (V)				125	
Start-up voltage (V)				125	
MPPT voltage range (V)				180~850	
MPPT voltage range@full-load (V)				250~850	
Rated PV input voltage (V)				600	
No. of MPPT trackers				2	
No. of strings per MPPT tracker			1/1	2/2	
Max. input current per MPPT (A)			18/18	20/20	
Max. short-circuit current per MPPT (A)			25/25	30/30	

Battery input data

Battery type	Lithium-ion / Lead-acid				
Max. charge / discharge power (kW)	6.6	8.8	11	13.2	16.5
Battery voltage range (V)	150~550				
Battery voltage range@full-load (V)	180-550	230-550	285-550	340-550	425-550
Max. charging / discharging current (A)	50/50				
Rated charge / discharge current (A)	40/40				
Battery charging strategy	Self-adaption to BMS				
BMS communication	CAN				

AC output data (grid side)

Rated output power (kW)	6	8	10	12	15
Max. apparent output power (kVA)	6.6	8.8	11	13.2	16.5
Max. apparent input power(kVA)	13.2	17.6	22	26.4	33.3
Rated grid voltage (V)	220 / 380; 230 / 400				
Grid voltage range (V)	187~264.5				
Grid input voltage (V)	380; 400				
Rated grid frequency (Hz)	50/60				
Grid frequency range(Hz)	45-55 / 55-65				
Rated output current (A)	8.7	11.5	14.4	17.3	21.7
Max. AC output current (A)	9.5	12.7	15.9	19.1	23.8
Power factor	>0.99 (0.8 leading ~ 0.8 lagging)				
THDi	< 3%				
Grid type	3L+N+PE				

AC output data (back-up)

Rated output power (kW)	6	8	10	12	15
Max. apparent output power (kVA)	6.6	8.8	11.1	13.2	16.5
Rated output voltage (V)	220 / 380; 230 / 400				
Rated output frequency (Hz)	50/60				
Rated output current (A)	8.7	11.5	14.4	17.3	21.7
Max. AC output current (A)	9.5	12.7	15.9	19.1	23.8
Peak output power	≥110%, 10mins; ≥120%, 1.25min; ≥150%, 20ms				
Back-up switch time (ms)	<10				
THDu	<2%				

Protection

Supported protection	PV reverse polarity protection, Anti-islanding protection, Ground fault protection, Battery reverse protection, Leakage current protection, Insulation resistance detection, Backup output short circuit protection, AC under-voltage protection, AC output over-current protection, AC over-voltage protection
Over voltage category	DC Type II / AC Type III

Certifications and standards

Certificates	IEC 61000-6-1/-2/-3/-4, IEC 61000-3-11, IEC61000-3-12; EN 62109-1, EN 62109-2; EN50549-1; EN50549-10; EN50438; G98/G99:2022; VDE-AR-N 4105:2018; CEI 0-21:2022; C10/11; Rfg:2016/NC Rfg:2018/PTPIREE:2021; NRS 097-2-1:2017; Hungary; NTS V2.1:2021-07&UNE217002:2020&UNE217001:2020; NA/EEA-NE7 – CH 2020; OVE Directive R 25:2020, TOR Erzeuger Type A V1.2; TR3.3.1:2019;ANRE228; ANRE228; NA/EEA-NE7; PPDS:2022 for A1&A2; RS 097-2-1 :2017; OVE Directive R 25:2020, TOR Erzeuger Type A V1.2; EIFS 2018:2
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General data

Ingress protection	IP65
Operating temperature range (°C)	-25~+60
Cooling	Natural cooling
Relative humidity	0-95%
Operating altitude (m)	4000(>2000 power derating)
Dimensions W*D*H (mm)	566 x 593.5 x 219.5
Weight (kg)	32
Topology (solar / battery)	Transformerless / Transformerless
Noise emission (dB)	<45

Display and communication

Display	Monochrome screen
Communication	RS485,CAN,WiFi