

REVO residential energy storage inverters

Three-phase hybrid inverter



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.
- supporting 100% unbalanced loads.

PV string input

Model	R6KH3	R8KH3	R10KH3	R12KH3	R15KH3
Max.PV input power (kW)	9	12	15	18	22.5
Max. PV voltage (V)	1,000				
MPPT voltage range (V)	180~850				
Full power MPPT voltage range (V)	250~850	330~850	430~850	510~850	620~850
Min. input voltage/start-up voltage (V)	125/180				
Max. input current per MPPT (A)	13/13				
Max. short-circuit current (A)				16/16	
No. of MPPT trackers	2				
No. of strings per MPPT trackers	1/1			1/2	
Rated PV input voltage (V)	700				

AC Output

Nominal output power to grid (kVA)	6	8	10	12	15
Max. apparent power to grid (kVA)	6.6	8.8	11	13.2	16.5
Max. apparent power from grid (kVA)	13.2	17.6	22	26.4	33
Max. apparent current from grid (A)	19.1	25.5	31.8	38.2	47.6
Nominal output current to grid (A)	8.7	11.5	14.4	17.3	21.7
Max.output current to grid (A)	9.5	12.7	15.9	19.1	23.8
Nominal grid voltage (V)	380/400, 3W+N+PE				
Nominal grid frequency (Hz)	50/60				
THDi	< 3%				

Battery

Max.charging /discharging power (kW)	6.6	8.8	11	13.2	16.5
Battery voltage range (V)	125~600				
Battery optimal operating voltage range (V)	150~550				
Max.charging /discharging current (A)	50				
Rated.charging /discharging current (A)	40				
Battery type	Lithium /Lead acid				
Communication interface	CAN				

EPS output

Nominal output power (kVA)	6	8	10	12	15
Max. apparent power (kVA)	6.6	8.8	11	13.2	16.5
Nominal output current (A)	8.7	11.5	14.4	17.3	21.7
Max.output current (A)	9.5	12.7	15.9	19.1	23.8
Nominal output voltage (V)	400, 3W+N+PE				
Nominal output frequency (Hz)	50/60				
THDu	< 2%				
Max. efficiency	97.9%	97.9%	98.2%	98.2%	98.5%
Europe efficiency	97.2%	97.2%	97.5%	97.5%	97.6%
MPPT efficiency	≥ 99.5%				
Max.battery charge/discharge efficiency	97.5%	97.5%	97.5%	97.6%	97.8%

General Data

Ingress protection	IP65
Operating temperature range (°C)	-25~60
Relative humidity	0~95%
Operating altitude (m)	4,000 (>2,000 Derating)
Dimensions W*H*D (mm)	566*596*220
Net weight (kg)	32
Self-consumption at night (W)	< 15
Cooling	Natural
Noise emission (dB)	≤ 35
EMC	IEC/EN 61000-6-1:2019, IEC/EN 61000-6-2:2019, IEC/EN 61000-6-3:2021, IEN/EN 61000-6-4:2019, IEC/EN 61000-3-2:2019/A1:2021, EN 61000-3-3:2013/A2:2021, IEC/EN 61000-3-11:2019, EN 61000-3-12:2011
On-grid	Europe: EN 50549-1:2019/AC:2019, Poland:EN50549-1:2019/Rfg:2016/NC Rfg:2018/PTPiREE:2021, Germany:VDE-AR-N 4105:2018 /DIN VDE V 0124-100(VDE V 0124-100):2020, South Africa: NRS 097-2-1:2017 Edition 2.1, UK:G98/G99/1-6:2022, Spain:UNE217001:2020 /UNE217002:2020/NTS V2.1:2021-07, IEC61727:2004/IEC62116:2014/IEC61683:1999, Hungary:EN50549-1:2019/RFG:2016/ Hungary, Italy CEI0-21
Safety standard	IEC/EN62109-1:2010, IEC/EN62109-2:2011

Display and communication

HMI	LCD; APP
BMS	CAN
EMS/Meter	RS485/RS485
Supported communication interface	WIFI / GPRS