

REVO Residential Energy Storage Inverters

Three-phase ESS Hybrid Inverter

Product Features:

Safe & Reliable

- With island protection, PV reverse polarity protection, battery reverse polarity protection, insulation monitoring, residual current monitoring, AC over current protection, AC over power protection, short circuit protection.

Friendly & Flexible

- Less noise due to no external cooling fans;
- Support diesel generator access;
- Support full power discharge, automatic management of battery charge and discharge.

Economical & Practical

- It is more economical to support multiple operating modes;
- Can be as a UPS for the important loads when power off.



General Data

Model	R6KH3	R6KH3-P	R8KH3	R8KH3-P	R10KH3	R10KH3-P	R12KH3	R12KH3-P	R15KH3	R15KH3-P
Ingress Protection	IP65									
Operating Temperature Range (°C)	-25~60									
Relative Humidity	0~100%									
Operating Altitude (m)	4,000 (Derating above 2,000)									
Dimensions W*H*D (mm)	530*560*220									
Weight (kg)	30	30	31	31	31	31	33	33	34	34
Cooling	Natural									
Noise Emission (dB)	≤25									
Installation	Wall Mounted									
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									
Grid Regulation	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									
Safety Regulation	IEC/EN62109-1:2010, IEC/EN62109-2:2011									

Display and communication

Model	R6KH3	R6KH3-P	R8KH3	R8KH3-P	R10KH3	R10KH3-P	R12KH3	R12KH3-P	R15KH3	R15KH3-P
HMI	LCD;APP									
BMS	RS485,CAN									
EMS/Meter	RS485/RS485									
Supported Communication Interface	WIFI / GPRS									

Input DC (PV)

Model	R6KH3	R6KH3-P	R8KH3	R8KH3-P	R10KH3	R10KH3-P	R12KH3	R12KH3-P	R15KH3	R15KH3-P
Max.PV Input Power (kW)	9	9	12	12	15	15	18	18	22.5	22.5
Max. PV Voltage (V)	1,000									
MPPT Voltage Range (V)	180~850									
Full Power MPPT Voltage Range (V)	250~850	250~850	330~850	330~850	430~850	430~850	510~850	510~850	620~850	425~850
Start-up Voltage (V)	125									
Max.Input Current Per MPPT (A)	13/13	16/16	13/13	16/16	13/13	16/16	13/13	16/16	13/13	20/20
Max. Short-circuit Current (A)	16/16	25/25	16/16	25/25	16/16	25/25	16/16	25/25	25/25	30/30
Number of MPPT Rackers	2									
MPPT Number/ Max. Input Strings Number	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	2/2
Rated Input Voltage (V)	700									

AC Output Data(on-grid)

Model	R6KH3	R6KH3-P	R8KH3	R8KH3-P	R10KH3	R10KH3-P	R12KH3	R12KH3-P	R15KH3	R15KH3-P
Nominal Output Power to Grid (kVA)	6	6	8	8	10	10	12	12	15	15
Max. Apparent Power to Grid (kVA)	6.6	6.6	8.8	8.8	11	11	13.2	13.2	16.5	16.5
Max. Apparent Power from Grid (kVA)	13.2	13.2	17.6	17.6	22	22	26.4	26.4	33	33
Max. Apparent Current from Grid (A)	19.1	19.1	25.5	25.5	31.8	31.8	38.2	38.2	47.6	47.6
Nominal Output Current to Grid (A)	8.7	8.7	11.5	11.5	14.4	14.4	17.3	17.3	21.7	21.7
Max.Output Current to Grid (A)	9.5	9.5	12.7	12.7	15.9	15.9	19.1	19.1	23.8	23.8
Nominal Grid Voltage (V)	380/400, 3W+N+PE									
Nominal Grid Frequency (Hz)	50/60									
THDi	<3%									

Battery

Model	R6KH3	R6KH3-P	R8KH3	R8KH3-P	R10KH3	R10KH3-P	R12KH3	R12KH3-P	R15KH3	R15KH3-P
Max.Charging / Discharging Power (kW)	6.6	6.6	8.8	8.8	11	11	13.2	13.2	16.5	16.5
Battery Voltage Range (V)	125~600									
Battery Working Voltage Range (V)	150~550									
Max.Charging / Discharging Current (A)	50									
Rated.Charging / Discharging Current (A)	40									
Battery Type	Lithium and Lead Acid Battery									

EPS Data(back up)

Model	R6KH3	R6KH3-P	R8KH3	R8KH3-P	R10KH3	R10KH3-P	R12KH3	R12KH3-P	R15KH3	R15KH3-P
Nominal Output Power (kVA)	8	8	8	8	10	10	12	12	15	15
Max. Apparent Power (kVA)	8.8	8.8	8.8	8.8	11	11	13.2	13.2	16.5	16.5
Nominal Output Current (A)	8.7	8.7	11.5	11.5	14.4	14.4	17.3	17.3	21.7	21.7
Max.Output Current (A)	9.5	9.5	12.7	12.7	15.9	15.9	19.1	19.1	23.8	23.8
Nominal Output Voltage (V)	400 ,3W+N+PE									
Nominal Output Frequency (Hz)	50/60									
THDu	<2%									
Max.Efficiency	97.9%	97.9%	97.9%	97.9%	98.2%	98.2%	98.2%	98.2%	97.6%	97.6%
Europe Efficiency	97.2%	97.2%	97.2%	97.2%	97.5%	97.5%	97.5%	97.5%	97.8%	97.8%
MPPT Efficiency	99.9%									
Max.Battery Charge/ Discharge Efficiency	97.5%	97.5%	97.5%	97.5%	97.5%	97.5%	97.6%	97.6%	97.8%	97.8%