



Three-phase Hybrid Inverter

> KEY STRENGTHS

-  Mainstream battery automatic matching.
-  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	13/13	13/13	13/13	13/13
Max. short-circuit current (A)	16/16	16/16	16/16	16/16	25/25
No. of MPPT trackers	2				
No. of strings per MPPT trackers	1/1				
Rated PV input voltage (V)	700				

AC Output

Model	R6KH3	R8KH3	R10KH3	R12KH3	R15KH3
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

Model	R6KH3	R8KH3	R10KH3	R12KH3	R15KH3
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

Model	R6KH3	R8KH3	R10KH3	R12KH3	R15KH3
Nominal output power (kVA)	8	8	10	12	15
Max. apparent power (kVA)	8.8	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%	97.6%
Europe efficiency	97.2%	97.2%	97.5%	97.5%	97.8%
MPPT efficiency	99.9%				
Max.battery charge/discharge efficiency	97.5%	97.5%	97.5%	97.6%	97.8%

General Data

Model	R6KH3	R8KH3	R10KH3	R12KH3	R15KH3
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)	530*560*220				
Net weight (kg)	30	31	31	33	34
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 CEI 0-21				
Safety standard	IEC/EN62109-1:2010, IEC/EN62109-2:2011				

Display and communication

Model	R6KH3	R8KH3	R10KH3	R12KH3	R15KH3
HMI	LCD; APP				
BMS	CAN				
EMS/Meter	RS485/RS485				
Supported communication interface	WIFI / GPRS				