



RKH3 Series / 6-15kW

Residential Three Phase Hybrid Inverter





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Less noise due to no external cooling fans




Support diesel generator access



It is more economical to support multiple operating modes
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Support full power discharge, automatic management of battery charge and discharge



Can be as a UPS for the important loads when power off

- 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

General Data	R6KH3	R8KH3	R10KH3	R12KH3	R15KH3
Ingress Protection			IP65		
Operating Temperature Range			-35~60 C		
Relative Humidity			0~100%		
Operating Altitude			4000m(Derating above 2000 m)		
Cooling			Natural Convection		
Noise Emission			≤25dB		
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:G99/1-6:2020, 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				
Interface					
HMI			LCD;APP		
BMS			RS485,CAN		
EMS			RS485		
Meter			RS485		
Supported Communication Interface			WIFI / GPRS / 4G		
Battery					
Max.Charging/Discharging Power	6600W	8800W	11000W	13200W	16500W
Battery Voltage Range			125~600V		
Battery Working Voltage Range			150~550V		
Max.Charging/Discharging Current			50A		
Rated.Charging/Discharging Current			40A		
Battery Type	Lithium and Lead Acid Battery				
Input DC (PV)					
Max.PV Input Power	9000W	12000W	15000W	18000W	22500W
Max. PV Voltage			1000V		
MPPT Voltage Range			180~850V		
Full Power MPPT Voltage Range	250V~850V	330V~850V	430V~850V	510V~850V	620V~850V
Start-up Voltage			125V		
Max.Input Current per MPPT	13/13A	13/13A	13/13A	13/13A	20/20A
Max. Short-circuit Current	16/16A	16/16A	16/16A	16/16A	30/30A
Number of MPPT Trackers			2		
MPPT Number/ Max. Input Strings Number	1/1	1/1	1/1	1/1	2/2
Rated Input Voltage	600V				
AC Output Data(On-Grid)					
Nominal Output Power to Grid	6000VA	8000VA	10000VA	12000VA	15000VA
Max. Apparent Power to Grid	6600VA	8800VA	11000VA	13200VA	16500VA
Max. Apparent Power from Grid	13200VA	17600VA	22000VA	26400VA	33000VA
Max. Apparent Current from Grid	19.1A	25A	31.8A	38.1A	47.6A
Nominal Output Current to Grid	8.7A	11.5A	14.4A	17.3A	21.7A
Max.Output Current to Grid	9.5A	12.7A	15.9A	19.1A	23.8A
Nominal Grid Voltage	380V/400V, 3W+N+PE				
Nominal Grid Frequency	50Hz/60Hz				
THDI	<2%				
AC Output Data(Back Up)					
Nominal Output Power	8000VA	8000VA	10000VA	12000VA	15000VA
Max. Apparent Power	8800VA	8800VA	11000VA	13200VA	16500VA
Nominal Output Current	8.7A	11.5A	14.4A	17.3A	21.7A
Max.Output Current	9.5A	12.7A	15.9A	19.1A	23.8A
Nominal Output Voltage	400V,3W+N+PE				
Nominal Output Frequency	50Hz/60Hz				
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	99.9%				
Max.Battery Charge/ Discharge Efficiency	97.5%	97.5%	97.5%	97.6%	97.8%
Mechanical Parameters					
Dimensions (W*H*D)			530*560*220mm		
Weight	30kg	30kg	31kg	32kg	34kg