

On-grid Hybrid Inverter

SIH series



Luxury villa



Residential electricity



Communication base station



Nomadic farm

FEATURES



Compatible with lead-acid and lithium-ion batteries;



Support diesel generator input source;



IP65 protection, low noise < 35dB;



Battery reverse connection protection, anti-power control function



Input power source priority can be set by users;



Support full power discharge, automatic management of battery charge and discharge;

Technical Parameter

Technical specification	R8KH3	R10KH3	R12KH3
Input (PV)			
Max.power(kW)	10.4	13	15.6
Max. DC voltage(V)		1,000	
MPPT voltage range(V)		180~850	
Max.input current of single MPPT(A)		12.5	
MPPT tracker/strings	2/1	2/1	2/1
AC output			
Rated output power(kVA)	8.8	11	13.2
Max. output current(A)	12.7	15.9	19.1
Grid voltage/range(V)		400/360~440	
Frequency (Hz)		50 /60	
Power factor		0.8lagging-0.8leading	
THDi		<3%	
AC output topology		3W+N+PE	
Battery			
Battery voltage range(V)		125~600	
Max. charging voltage(V)		600	
Full battery voltage(V)	210	270	250
Max. charge/discharge current(A)	40	40	50
Battery type		lithium /Lead-acid	
Communication Interface		CAN/RS485	
EPS output			
Rated power(kVA)	8.8	11	13.2
Rated output voltage(V)		400	
Max. output current(A)	12.7	15.9	19.1
Rated frequency(Hz)		50 /60	
Automatic switching time(ms)		<20	
THDu		<2%	
Overload capacity		110%, 30S/120%, 10S/150%, 0.02S	
General data			
Battery charge /discharge efficiency	96.6%	96.7%	96.8%
DC Max. efficiency	97.9%	98.2%	98.2%
Europe efficienc	97.2%	97.5%	97.5%
MPPT efficiency	99.5%	99.5%	99.5%
Ingress protection		IP65	
Noise emission(dB)		<35	
Operation temperature		-25°C~60°C	
Cooling		Natural	
Relative Humidity		0 ~95% (non-condensing)	
Altitude		2,000m (>2,000 Derating)	
DimensionsW * D * H(mm)		530*200*600	
Weight(kg)		29	
Isolation transformer		No	
Self-consumption(W)		<3	
Display and communication			
Display		LCD	
Interface:RS485/Wifi/4G/CAN/DRM		Yes/ Opt/ Opt/ Yes/ Yes	
Safety standard		IEC/EN62109-1/-2, IEC/EN62477-1	
EMC		IEC/EN 61000-6-1, IEC/EN 61000-6-3	
On-grid		Europe: EN50549-1, Germany: VDE4105/0124, UK: G99, South Africa: NRS097-2-1:2017	

Product specifications are subject to change without notice.