



# Single Phase Hybrid Inverter



## SAFE & RELIABLE

- Passed IEC/EN 62109-1/-2, IEC/EN 62477-1, IEC/EN 61000-6-1/-6-3 test certification
- Passed South Africa: NRS097-2-1:2017 test certification

## FRIENDLY & FLEXIBLE

- Support multi-parallel connection
- Compatible with lead-acid and lithium-ion battery

## ECONOMICAL & SMART

- Support intelligent EMS management function
- Support on/off-grid automatic switching function to ensure uninterrupted power when important loads are off-grid

PARAMETERS	HV3K-1L-A	HV3K6-1L-A	HV4K-1L-A	HV4K6-1L-A	HV5K-1L-A	HV6K-1L-A
<b>PV Input</b>						
Max power	4.6kW	4.6kW	6kW	6kW	7kW	7kW
Max DC Voltage	550V					
MPPT Voltage Range	125-500 V					
Max Input Current Of Single MPPT(A)	14A					
MPPT Tracker/Strings	2/1					
<b>AC Output</b>						
Rated Output Power	3 kVA	3.68 kVA	4 kVA	4.6 kVA	5 kVA	6 kVA
Max Output Current	13A	16A	17.4A	20A	21.7A	26A
Grid Voltage/Range	230V/176-270 V					
Frequency	50/60 Hz					
Power Factor	0.8lagging-0.8leading					
THDi	<3%					
AC Output Topology	L+N+PE					
<b>Battery</b>						
Battery Voltage Range	40 ~ 58 V					
Max Charge/Discharge Current	95/62.2 A	95/75 A	95/83.3 A	95/95.8 A	95/104.2 A	95/110 A
Battery Type	Lithium/Lead-acid					
Communication Interface	CAN/RS485					
<b>EPS Output</b>						
Rated Power	3 kVA	3.68 kVA	4 kVA	4.6 kVA	5 kVA	6 kVA
Rated Output Voltage	230 V					
Rated Output Current	13A	16A	17.4A	20A	21.7A	26A
Rated Frequency	50 /60 Hz					
Automatic Switching Time	<20ms					
THDu	<2%					
Overload Capacity	110%, 30S/120%, 10S/150%, 0.02S					
<b>General Data</b>						
Battery Charge /Discharge Efficiency	95%					
DC Max Efficiency	97.6%					
European Efficiency	97.0%					
MPPT Efficiency	99.9%					
Ingress Protection	IP65					
Noise Emission	<35 dB					
Operation Temperature	-25°C ~ 60°C					
Cooling Method	Natural					
Relative Humidity	0 ~95% (non-condensing)					
Altitude [m]	≤2000					
Isolation Transformer	No					
Self-consumption	< 3W					
Installation	Wall-Mounted					
<b>Display And Communication</b>						
Display	LCD					
Interface	RS485/ CAN/DRM/ Wi-fi (opt.)/ 4G(opt.)					
Safety standard	IEC/EN62109-1/-2, IEC/EN62477-1					
EMC	IEC/EN 61000-6-1, IEC/EN 61000-6-3					
On-grid	South Africa: NRS097-2-1:2017 UK: G98,G99					

