

## HLX2-HN 12-14K (SINGLE-PHASE)



- Max. PV input: 18kW with 2 MPPTs
- Max. charging and discharging current: 250A
- Support up to 16 units in parallel for on/off grid
- Lite Design for Easier Installation
- Support Hybrid Working Modes
- Intelligent Operating Mode to Lower Energy Costs & Quick ROI

Model	12K	14K
<b>INPUT (PV DC)</b>		
Max. PV input power (W)	18000	
Rated PV input voltage (V)	320	
Number of independent MPPT inputs	2/(2:1)	
PV input voltage range (V)	100-480	
MPPT voltage range (V)	120-440	
Start-up voltage (V)	100	
Max. PV input current per MPPT (A)	35/17.5	
Max. PV short-circuit current input per MPPT (A)	44/22	
<b>Battery</b>		
Compatible battery type	Lithium-ion/Lead-Acid	
Rated battery voltage (V)	48/51.2	
Battery voltage range (V)	46.4~60/38.4~60	
Max. charging / discharging current (A)	250	
Max. charging / discharging power (W)	12000	
Force wake up battery from PV and Grid function	YES	
<b>Grid</b>		
Rated AC voltage (V)	230	
AC Start-up Voltage	90	
Acceptable Input Voltage Range (V)	130~280	
Rated AC frequency (Hz)	50/60	
Rated AC input current (A)	100	
Rated AC input power (W)	24000	
PF	0.99	
THDI	<5%	
Max. continuous AC passthrough current(A)	100	
<b>GEN</b>		
Rated GEN voltage (V)	230	
Rated GEN frequency (Hz)	50/60	
Rated GEN input current (A)	65	
Rated GEN input power (W)	15000	
Rated GEN current of BYPASS relays (A)	90	
<b>UPS</b>		
Rated output power (W)	12000	14000@230V
Rated output voltage (V)	230	
Rated output current (A)	52	60
Rated output frequency (Hz)	50/60	
Switching time ( UPS )	<10ms	
Wave form	Sine wave	
THDV	<3%	
Overload protection	5s@≥150% load /10s@110%~150% load	
<b>Efficiency</b>		
Max. efficiency	93.5%	
Max. charging / discharging efficiency	93.0%	
Max. MPPT efficiency	99.0%	
<b>Protection</b>		
Over current / voltage protection(Y/N)	YES	
AC Short-circuit current protection(Y/N)	YES	
Grid monitoring(Y/N)	YES	
DC / AC Surge protection	Type III	
<b>General</b>		
Dimensions ( W*H*D mm )	520*580*163mm / 20.5*22.8*6.4 in	
Weight	TBD	
Ingress protection rating	IP20	
Operating environment temperature range(°C)	0~45	
Storage temperature range(°C)	-15~60	
Relative humidity	5% ~ 95%	
Display & Communication interface	LCD+RGB, RS485 / Wifi / CAN	
Warranty	2 years	
Cooling method	Smart cooling	
Topology on AC / Battery side	Transformer-less / Transformer	
Altitude (m)	<2000	
Noise emission (typical)	<50dB	
<b>Standard &amp; Certification</b>		
CE		