

HLX-IST 12K



- 3 MPPTs, Max. 18kW of PV input
- 12kW UPS output for backup during power cuts
- Supports up to 10pcs in parallel for on/off grid
- On/off grid seamless switching
- Separate port for
 - Generator connection
 - Auto generator control
 - Support generator exercise
 - Support generator boost function
 - Or smart load connection and auto control
 - Or AC coupling function

INPUT (PV DC)		12K
Max. PV array power(W)		18000
Rated PV input voltage(V)		360
Number of independent MPPT inputs		3/(2:1:1)
PV input voltage range(V)		100~600
MPPT voltage range(V)		120~500
Start-up voltage(V)		140
Max. PV input current per MPPT(A)		25/15/15
Max. PV short-circuit current input per MPPT(A)		31/19/19
Battery		
Compatible battery type		Lithium-ion/Lead-Acid
Rated battery voltage(V)		48
Battery voltage range(V)		40~60
Max. charge/discharge current(A)		250
Max. charge/discharge power(W)		12000
Force wake up battery from PV function(Y/N)		YES
Grid		
Rated AC voltage(V)		230
Rated AC frequency(Hz)		50/60
Rated AC output current(A)		50
Rated AC output power(W)		11500
Max. AC input current(A)		200
PF		0.99 (Adjustable from 0.8 leading to 0.8 lagging)
THDI		<3%
Max. continuous AC passthrough current(A)		200
UPS		
Rated output power(W)		11500
Rated output voltage(V)		230
Rated output current(A)		50
Rated output frequency(Hz)		50/60
Surge power, duration		2Pn, 0.5s
Switching time		20ms
Wave form		Sine wave
THDV		3%
Efficiency		
MPPT efficiency		99.9%
Max. efficiency		97.5%
Max. charge efficiency		94.0%
Max. discharge efficiency		94.0%
Protection		
PV reverse polarity protection		YES
Over current/voltage protection		YES
Anti-islanding protection		YES
AC Short-circuit current protection		YES
Leakage current protection		YES
Ground fault monitoring		YES
Grid monitoring		YES
DC Switch		YES
AC/DC Surge protection Type III		YES
General		
Dimensions(W*H*D)		490*670*265mm/19.3*26.3*10.4inch
Weight		50kg/110.2lbs
Ingress protection rating		IP65
Relative humidity		0~100%
Operating environment temperature range(°C)		-25~60°C, >45°C Derating
Storage temperature range(°C)		-25~60
Display & Communication interface		Touch color screen, RS485/Wi-Fi/CAN
Warranty		5 years
Cooling method		Smart Cooling
Topology		Transformer-less
Altitude		<2000m
Noise emission(typical)		<50dB
Standards & Certification		
EMC SANS 211:2010, CISPR 2015+A1:2016, IEC 61000-2-2-2012+A1:2017+A2:2018, Cape Town list, G99, G100, NRS 097-2-1:2017		