HL SERIES HYBRID INVERTER

THREE-PHASE / LOWVOLTAGE-INVERTER

MODELS:
HL 16K-20K

MODEL	II5-3P-16K-LV	II5-3P-18K-LV	II5-3P-20K-LV
PV INPUT			
Max. PV Access Power	32000 W	36000 W	40000 W
Max. PV Input Power	25600 W	28800 W	32000 W
Max. Input Voltage	1000 V	1000 V	1000 V
Rated Voltage	600 V	600 V	600 V
Start-up Voltage	150 V	150 V	150 V
MPPT Voltage Range	160-800 V	160-800 V	160-800 V
Max. Input Current	26 A + 26 A + 26 A	26 A + 26 A + 26 A	26 A + 26 A + 26 A
Max. Short Circuit Current	45 A + 45 A + 45 A	45 A + 45 A + 45 A	45 A + 45 A + 45 A
Number of MPPT Trackers	3	3	3
Number of Strings per MPPT	1 + 1 + 1	1 + 1 + 1	1 + 1 + 1
AC INPUT / OUTPUT			
Rated AC Input/Output Active Power	16000 W	18000 W	20000 W
Max. AC Input/Output Apparent Power	17600 VA	19800 VA	22000 VA
Rated AC Input Current	24.3 A	27.4 A	30.4 A
Rated AC Output Current	23.2 A	26.1 A	29 A
Max. AC Input Current	26.7 A	30.1 A	33.4 A
Max. AC Output Current	25.5 A	18.7 A	31.9 A
Max. Continuous AC Passthrough		70 A	
Peak Power (off-grid) 10s	32000 VA	36000 VA	40000 VA
Power Factor Range		0.8 leading to 0.8 lagging	
Rated AC Voltage Range		230/400Vac (Three-phase)	
Rated Grid Frequency		50/60Hz ± 10.3Hz	
Grid Connection Form		3L + N + PE	
Switch Time		< 10 ms	
THD		< 3% (of nominal power)	
DC Injection Current		< 0.5%In	
BATTERY			
Battery Type		Li-ion / Lead-Acid / User Defined	
Voltage Range		40 - 60 V	
Max. Charge/Discharge Current	300 A	330 A	350 A
Charging Strategy for Lead-Acid Battery		3 Stages Curve	
Charging Strategy for Li-ion Battery		Self-adaption to BMS	
Communication		RS485/CAN/USB/Dry Contact	
EFFICIENCY			
Max. Efficiency		97.8%	
Euro Efficiency	97.2%	97.5%	97.5%
MPPT Efficiency		> 99%	
INTERFACE			
Communication Interface		RS485/CAN/USB/Dry Contact	
Monitor Mode		WIFI / 4G Stick	
GENERAL DATA			
Operating Temperature		-25~60°C, >45°C Derating	
Permissible Ambient Humidity		0~100%	
Permissible Altitude		2000 m	
Noise		< 60 dB	
Ingress Protection(IP) Rating		IP65	
Inverter Topology		Non-Isolated	
Over Voltage Category		DC type II/AC type III	
Surge		TYPE II (DC), TYPE III (AC)	
Cabinet Size (W x H x D)		470 x 800 x 313 mm	
Weight		59.5 kg	
Type of Cooling		Heat sink + intelligent fan cooling	
Warranty		5 years	
Grid Regulation		EN50549-1/CEI 0-21/IEC 61727	
Safety Standard		IEC62109-1, IEC62109-2	
EMC Standard		EN61000-6-1, EN61000-6-3, FCC 15 class B	