



Hybrid Inverter-single phase

HLS3/3.6/5/6K-D2-A,HLS8/10K-G1



IP66
High level protection



LCD Color
Screen Operation



AC couple to retrofit
existing solar system



200% PV Input Maximizes
Solar Energy Utilization



Max 210A Charge/
Discharge Current



Support up to 6 unit
in parallel



Single PV
Operation Supported



Dual back
up output

**< 10
ms**

UPS switch over time
< 10ms



Technical Specification



Product Model	HLS3K-D2-A	HLS3.6K-D2-A	HLS5K-D2-A	HLS6K-D2-A	HLS8K-G1	HLS10K-G1
Battery Input Parameters						
Battery Type	Lithium or Lead-acid Battery					
Battery Voltage Range (V)	40-60					
Max. Charge Current (A)	70	90	120	125	190	210
Max. Discharge Current (A)	70	90	120	125	190	210
Lithium Battery Comm.	Optional self-adapting BMS					
Number of Battery Inputs	1					
PV Input Parameters						
Max. DC access Power (W)	6000	7200	10000	12000	16000	20000
Max. DC Input Power (W)	6000	7200	10000	12000	12800	16000
Max. DC Input Voltage (V)	500					
MPPT Voltage Range (V)	150~425					
Startup Voltage (V)	125					
Rated PV Input Voltage (V)	370					
Max, Operating PV input Current (A)	20	20/20			26/26	
Max. Input Current (A)	25	25/25			34/34	
Number of MPPT Trackers	1	2 / 1+1			2/2+2	2/2+2
AC Input/Output Parameters						
Rated AC Power (VA)	3000	3600	5000	6000	8000	10000
Max. AC Power (VA)	3300	3960	5500	6600	8800	11000
Peak Power (Surge)	>200%, 15sec			>200%, 10sec		
Rated AC Input/Output Current (A)	13.7/13.1	16.4/15.7	22.8/21.8	27.3/26.1	36.4/34.8	45.5/43.5
Max. AC Input/Output Current (A)	15/14.4	18/17.3	25/24	30/28.7	40/38.3	50/47.9
Max. AC Input Current(BP)(A)	35	35	35	40	50	50
Rated Input/Output Voltage Range	220V/230V 0.85Un-1.1Un					
Grid Connection Type	L+N+PE					
Rated Input/Output Freq. / Range	50Hz / 45Hz~55Hz 60Hz / 55Hz~65Hz					
Output Power Factor	1 (0.8 leading ~ 0.8 lagging)					
Total Current Harmonic Distortion (THDi)	< 3% (at nominal power)					
DC Current Injection	< 0.5% In					
Efficiency						
Maximum Efficiency	97.6%					
Euro Efficiency	96.5%					
MPPT Efficiency	> 99%					
Protection						
Integrated Protections	DC Reverse Polarity, AC Output Over-current, Thermal, AC Output Over-voltage, AC Output Short-circuit, DC Injection Monitoring, Arc Fault Circuit Interrupter (Optional), Anti-Islanding, DC Switch, Insulation Impedance Detection, Residual Current Monitoring					
Surge Protection Type	Type II (DC), Type II (AC)				TYPE II(DC),TYPE HI(AC)	
Communication & Monitoring						
Communication Interface	RS485 / CAN				RS485/RS232/CAN	
Monitoring Options	GPRS / Wi-Fi / Bluetooth / 4G / LAN (Optional)					
General Parameters						
Operating Temperature (°C)	-25 ~ 60°C (Derating > 45°C)				-40 to +60°C (Derating > 45°C)	
Storage Temperature (°C)	-30 ~ 65°C				-45 ~ 65°C	
Relative Humidity	0 ~ 100%					
Operating Altitude (m)	≤2000m					
Cooling Method	Natural Cooling				Intelligent Air Cooling	
Noise (dB)	< 30 dB					
Weight (kg)	13				26.8	
Dimensions (WHDmm)	338*480*205				580*330*242	
IP Rating	IP66					
Topology	Transformerless				Non-Isolated	
Safety & EMC Certification	IEC62109, IEC61000, IS 16169 & IS 16221 (BIS)					
Grid-Tie Certification	IEC61727, EN50549-1, VDE-4105, NRS-097-2-1, OVE-Richtlinie R25, UNE217001/2, Ordinance No.140					
Other Certification	IEC61683, IEC62116, EN50530, IEC60068					

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