

IDU Series Hybrid Inverters

Model: HS1-LV6
5.6kW/6.2kW



- 10ms UPS Switching.
- High PV Oversizing (Up to 6kW).
- Wide Grid Tolerance (90-280V APL Mode).
- Parallel Ready (up to 6 units).CE Certified (IEC62109, EN61000)

DC Input (PV)		
Max. PV Power	6000 W	
Max. PV Voltage (VOC)	500V	
MPPT Voltage Range	90-450 V	
PV Operating Range	120-500 V	
Max. PV Input Current	22A	
Number of MPPTs	1	
DC Input (Battery)		
Battery Voltage	48 V Nominal	
Operating Range	40 - 60 V	
Max. Charge Current		
- From AC Grid	80A	
- From Solar	100A	
- Total Hybrid Charge	100A	
AC Input (Grid)		
Rated Input Voltage	220/230 Vac	
Input Voltage Range (UPS)	170 - 280 Vac ±2%	
Input Voltage Range (APL)	90 - 280 Vac ±2%	
Frequency	50/60 Hz (Auto)	
AC Output (Inverter)		
Rated Output Power	5,600 W	6,200 W
Output Voltage	230 Vac ±5%	
Peak Power (10s)	11,000 VA	12,000 VA
Motor Start Capacity	3 HP	4 HP
Typical Transfer Time	10 ms	
Max. Bypass Current	40 A	
General		
Parallel Capability	Up to 6 units	
Communications	Wi-Fi, GPRS, RS485, USB, Dry Contact	
Display	LCD Interface	
Cooling	Forced Air Cooling (Adjustable)	
Efficiency	>95% (AC)/>92% (Inverter)	
Standby Consumption	< 25 W (Eco Mode)	
Dimensions (L*W*D)	415x280x 100 mm	
Weight	7.8kg	
Certifications	CE (IEC62109-1/2, EN61000), EMC C2	
Operating Temperature	-15° Cto +55° C	