

Single-phase low-voltage hybrid inverter

ES-HY 6KW-1P



Protection Rating : IP66 high protection level



Low Voltage Startup at 60V



Overload Capacity:2times the rated load



10ms off-grid switching



Parallel Operation Support:up to 12 units can be connected in Parallel



Battery-Less Startup Capability



Model	ES-HY 6KW-1P	
PV Input		
Max. PV Power	13.2kW	
Max. Input Voltage	500Vdc	
Rated Input Voltage	350Vdc	
Start-up Voltage	60Vdc	
MPPT Voltage Range	60-420Vdc	
Max.I nput Current	20A/20A	
Max. Short Circuit Current	27A/27A	
MPPT Number/Max. Input Strings Number	2/2	
Battery Input/Output		
Battery Voltage Range	40-60Vdc	
Max. Battery Charge/Discharge Current	140A/140A	
Max. Battery Charge/Discharge Power	7kW/7kW	
Communication	RS485/CAN	
Inverter Output		
Rated Output Power	6.6kW	
Max. Apparent Output Power	6.6kVA	
Rated Output Current	30A	
EPS Switch Time	<10ms	
Rated Output Voltage/Frequency	L/N/PE 220V/230V/240V 50Hz/60Hz	
Power Factor	0.8leading...0.8lagging	
THDi	<2%	
Grid Input		
Max.Input Power	10kW	
Max. Input Current	50A	
Frequency Range	40-70Hz	
Input Voltage	L/N/PE 220V/230V 50Hz/60Hz	
EPS Port		
Max. Output Power(Hybrid)	10kW	
Max. Output Power(No Grid)	6.6kW	
Max. Output Current(Hybrid)	50A	
Max. Output Current(No Grid)	30A	
Smart Port		
Work Mode	Second Load/Generator Input	
Max. Input/Output Power	8kW	
Max. Input/Output Current	40A	
Rated Voltage/Frequency	L/N/PE 220V/230V/240V 50Hz/60Hz	
System		
Display & Operate	3.5' LCD & Button	
Max. Efficiency	97.5%	
International Protection Code	IP66	
Amvient Temperature	-25°C~60°C (>45°Cderating)	
Humidity	0-100% (No Condensation)	
Cooling Concept	Forced-air	
Parallel	12 units	
Decibels	45db	
Inverter Main Size(L*W*H)	479*330*170mm (±2%) (Excluding Lugs and Terminals)	
Inverter Net Weight	13.5kG (±2%)	

