ISH6K48EA-G1 6kW Bidirectional Energy Storage Inverter



Introduction

ISH6K48EA-G1 bidirectional energy storage inveter can be connected to photovoltaic and energy storage systems to achieve on-grid and off-grid functions, bidirectional intelligent energy control, and energy scheduling. It has uninterruptible power supply (UPS) function with 10 ms switching time, and supports DC flashover protection.

Main Features



Protection class: IP65



Maximum photovoltaic inversion efficiency: 98.4%



Seamless UPS function with less than 10ms switching time

DC flashover protection

Application

- Solar power generation to save electricity costs
- Peak load shifting to make profits from electricity price differences
- Serves as an emergency backup power supply to protect important household equipment



(()) Maximum 1.5 times DC oversizing

Technical Parameters

Models		
	ISH5K48EA-G1	ISH6K48EA-G2
Photovoltaic Input Data		
· · · · · · · · · · · · · · · · · · ·	5kW	6kW
Maximum photovoltaic input power (W)	7500	9000
Maximum DC voltage (V)	550	
Start-up voltage (V)	90	
Rated voltage (V)	360	
MPPT operating voltage range (V)	80-550	
Number of MPPTs	2	
Number of strings per MPPT	1	
Maximum input current per MPPT (A)	16	
Maximum short-circuit current per MPPT (A)	23	
On-grid Output Data		
Rated power	5000W	6000W
Maximum apparent power	5000VA	6000VA
Rated voltage (Vac)	230	
Rated frequency (Hz)	50/60 (45Hz~55Hz/55Hz~65Hz)	
Maximum output current (A)	22.7	27.3
Power factor	1 (0.8 leading0.8 lagging)	
Total current waveform distortion rate	<3%	
Battery Input Data		
Battery type	l ithium-ion battery	
Rated battery voltage (V)	48	
Battery voltage range (V)	40~60	
Maximum charae/discharae current (A)	100	120
Maximum charae/discharae power (W)	5000	6000
Backup Power Data		
	5000	6000
Maximum output surront (A)	22.7	27.3
Poted voltage (V)	22.7	27.5
Rated frequency (Hz)	50/60H7	
Total voltage waveform distortion rate	<3%	
Efficiency		
	00.7%	
	98.4%	
Maximum hatter charge (discharge officiene)	70% 04%	
	90%	
	77.7/6	
Protection Function		
Insulation impedance detection	Available	
Residual current detection	Available	
Input reverse connection protection	Available	
Anti-islanding protection	Available	
AC short circuit protection	Available	
DC switch	Avaliable	
DC surge protection	Available	
AC surge protection		
	Optional	
Basic Parameters		
Operating temperature	-25~+60°C	
Relative humidity	0~95%	
Cooling method	Natural cooling	
Iopology	Iranstormer-free design	
Maximum operating altitude (m)	2000	
Human-machine interaction	LED, WLAN+APP	
	CAN/RS485	
Electric meter communication method	K5485	
Monitoring method	BI/Wi-Fi/GPRS	
vveignt (kg)		
Nighttime colf concurrentian narrow (MA)	400(wiatn)/410(neight)/ 150(depth)	
raginine sen-consumption power (W)		

