SINGLE PHASE HYBRID INVERTER
SE-H-10K 48VDC

Backup Power for when the lights go out!



FEATURES

- Max efficiency 98.0%, CEC efficiency 95%
- Max. PV Power 15KW
- String current 22A, compatible with high power modules
- Advanced parallel, up to 9Pcs
- Configure BMS management system to ensure high battery life
- Compatible with lead-acid batteries and lithium battery energy storage systems
- Remote configuration and upgrade

Solar Hotline : 010 045 8002 solar@acdc.co.za www.acdc.co.za

SPEC SHEET

Model	SE-H-8K 48VDC	SE-H-10K 48VDC
Efficiency		
Max. Efficiency (PV To AC)	98.0%	
Max. Efficiency (Bat To AC)	95%	
Input (PV)		
Max. PV Power	12000W	15000W
Max. Input Voltage	600V	
Max. Input Current (PV-A/PV-B)	30A / 22A / 22A	
Max short current (input A/input B) (A)	40A / 30A / 30A	
Start operating voltage (V)	90V	
MPPT Operating Voltage Range	70V-540V	
No.of MPPT trackers	3	
String per MPP tracker	2	
Input (Bat)		
Compatible battery type	Lithium-ion / Lead-acid	
Nominal battery voltage	48V	
Battery voltage range	40V-64V	
Max. charge/discharge current	180A / 180A	210A / 210A
Max. charge/discharge power	8000W / 8000W	10000W / 10000W
Lithium battery charge curve	Self-adaption to BMS	
Input (Grid)		
Nominal AC input power	12000W	15000W
Max. AC intput current	70A	70A
Rated AC voltage	230V (Single phase)	
Output (Grid)		
Nominal AC output power	8000W	10000W
Max. AC output apparent power	8800VA	11000VA
Max.AC output power (PF=1)	8800W	11000W
Max. AC output current	36.6A	46A
Rated AC voltage	230V (Single phase)	
Rated gird frequency	50Hz / 60Hz	
Power factor	> 0.99 @rated power (Adjustable 0.8 LD - 0.8 LG)	
THDI	<3% (Rated Power)	
Output (BackUp)		
Nominal output power	8000W	10000W
Nominal output voltage	230V (Single phase)	
Nominal output frequency	50Hz / 60Hz	
Nominal output current	36.3A	46A
Transfer time	10ms (typ) / 20ms (max)	
THDV	<3% @100% R Load	
Protection		
Protection category	Class I	
DC switch	Support	
Anti-islanding protection	Support	
AC overcurrent protection	Support	
AC short circuit protection	Support	
DC reverse connection	Support	
Surge Arrester	DC Type II, AC Type II	
Insulation detection	Support	
Leakage current protection	Support	
Gen	Support	
PV overvoltage category	II	
AFCI	Optional	
RSD	Optional	
General		
Max. operation altitude	4000m	
Noise emission	<45dB	
Ingress protection degree	IP65	
Operating temperature range	-25~60°C (>45°C derating)	
Relative humidity	0~100%	
Cooling concept	Fan Cooling	
Mounting	Wall bracket	
Dimensions (W*H*D)	420mm*800mm*240mm	
Weight	35Kg	
PV connection	Terminals	
BAT connection	DC special connector	
HMI & COM		
Display	LED+APP	
Communication interface	RS485/CAN (for BMS), DRM/RS485 (for Meter), RS485, USB, Optional: WiFi/GPRS/LAN	
Certification		
Grid	NRS 0-97 / IEC61727 / IEC62116	
Safety	IEC62109	
EMC	EN 61000	
Warranty (years)	5 Years / 10 Years (Optional)	

Remarks :
- The range of output voltage and frequency may vary depending up on different grid codes.
- Specifications are subject to change without advance notice.

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