

SINGLE PHASE AC COUPLED INVERTER

SE 4.6/5/6KAC

Energy Storage Inverter



HIGH YIELD

- Max Charge/Discharge efficiency 94%
- Convenient to retrofit existing grid-connected systems increase the proportion of spontaneous use



HIGH RELIABILITY

- With BMS system to ensure high battery life
- Natural cooling design



INTELLIGENT MAINTENANCE

- Compatible with lead-acid batteries and lithium battery energy storage systems
- Remote configuration and upgrade

Model	SE 4K6AC	SE 5KAC	SE 6KAC
Efficiency			
Max. efficiency (Max. charge/discharge)	94.0%		
Input (BAT)			
Compatible battery type	Lithium-ion/Lead-acid		
Nominal battery voltage (V)	48		
Battery voltage range (V)	40-60		
Max. charge/discharge current (A)	100/100	100/100	120/120
Max. charge/discharge power (W)	5000/5000	5000/5000	6000/6000
Lithium battery charge curve	Self-adaption to BMS		
Output (Grid)			
Nominal AC output power (W)	4600	5000	6000
Max. AC output apparent power (VA)	4600	5500	6000
Max. AC output power (PF=1) (W)	4600	5500	6000
Max. AC output current (A)	22	25	27.2
Rated AC voltage (V)	220		
AC voltage range (V)	150-300 (adjustable)		
Rated grid frequency (Hz)	50/60		
AC frequency range (Hz)	45-55/55-65 (adjustable)		
Grid connection	single phase		
Power factor	> 0.99 @rated power (adjustable 0.8 LG - 0.8 LD)		
THDI	<3%		
Output (Back up)			
Nominal output voltage (V)	230		
Nominal output frequency (Hz)	50/60		
Nominal output power (W)	4600	5000	5000
Nominal output current (A)	20	21.7	21.7
Transfer time (ms)	10 (typ), 20 (max)		
THDV	<3% @100% R Load		
Protection			
Protection category	Class I		
Anti-islanding protection	Support		
AC overcurrent protection	Support		
AC short circuit protection	Support		
Surge Arrester	AC Type III		
Leakage current protection	Support		
AC overvoltage category	III		
General			
Max. operation altitude (m)	4000		
Noise emission (dB)	<35		
Ingress protection degree	IP65		
Operating temperature range (°C)	-25~60		
Relative humidity (%)	0~100		
Cooling concept	Natural Cooling		
Mounting	Wall bracket		
Dimensions (W*H*D)	515mm*450mm*175mm		
Weight	20Kg		
Battery connection way	Dedicated DC connector		
AC connection way (grid & back up)	Dedicated AC connector		
HMI & COM			
Display	LED+APP		
Communication interface	RS485/CAN (for BMS), RS485, USB, DRM/RS485 (for Meter), Optional: WiFi/GPRS/Ethernet		
Certification			
Grid	VDE-AR-N4105, IEC 61727/62116, AS 4777.2, EN 50549-1		
Safety	IEC62040-1, IEC62477-1		
Warranty (years)	5/10 (optional)		

Remarks:

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