

# SINGLE PHASE AC COUPLED INVERTER

## PV 4.6/5/6KAC



### 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	PV 4K6AC	PV 5KAC	PV 6KAC
<b>Efficiency</b>			
Max. efficiency (Max. charge/discharge)	94.0%		
<b>Input (BAT)</b>			
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		
<b>Output (Grid)</b>			
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%		
<b>Output (Back up)</b>			
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		
<b>Protection</b>			
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		
<b>General</b>			
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)	515*450*175mm		
Weight (kg)	20		
Battery connection way	Dedicated DC connector		
AC connection way (grid & back up)	Dedicated AC connector		
<b>HMI &amp; COM</b>			
Display	LED+APP		
Communication interface	RS485/CAN (for BMS), RS485, USB, DRM/RS485 (for Meter), Optional: WiFi/GPRS/Ethernet		
<b>Certification</b>			
Grid	VDE-AR-N4105, IEC 61727/62116, AS 4777.2, EN 50549-1		
Safety	IEC62040-1, IEC62477-1		
EMC	IEC61000-6-2/3		
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.