

SINGLE PHASE AC COUPLED INVERTER

PV 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	PV 4K6AC	PV 5KAC	PV 6KAC
Efficiency			
Max. efficiency (Max. charge/discharge)	94.0%		
Input (BAT)			
Compatible battery type	Lithium-ion / Lead-acid		
Nominal battery voltage	48V		
Battery voltage range	40V-60V		
Max. charge/discharge current	100A / 100A	100A / 100A	120A / 120A
Max. charge/discharge power	5000W / 5000W	5000W / 5000W	6000W / 6000W
Lithium battery charge curve	Self-adaption to BMS		
Output (Grid)			
Nominal AC output power	4600W	5000W	6000W
Rated Apparent Power	4600VA	5000VA	6000VA
Max. AC output apparent power	4600VA	5500VA	6000VA
Max. AC output power (PF=1)	4600W	5500W	6000W
Max. AC output current	22A	25A	27.2A
Rated AC voltage	220V / 230V		
AC voltage range	150V-300V (Adjustable)		
Rated grid frequency	50Hz / 60Hz		
AC frequency range	45Hz-55Hz/55Hz-65Hz (Adjustable)		
Grid connection	Single phase		
Power factor	> 0.99 @rated power (Adjustable 0.8 LD - 0.8 LG)		
THDI	<3% (Rated Power)		
Output (Back up)			
Nominal output voltage	230V		
Nominal output frequency	50Hz / 60Hz		
Nominal output power	4600W	5000W	5000W
Nominal output current	20A	21.7A	21.7A
Transfer time	10ms (typ), 20ms (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	4000m		
Noise emission	<35dB		
Ingress protection degree	IP65		
Operating temperature range	-25°C~60°C		
Relative humidity	0~100%		
Cooling concept	Natural Cooling		
Mounting	Wall bracket		
Dimensions (W*H*D)	515mm*485mm*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/LAN		
Certification			
Grid	VDE-AR-N4105, IEC 61727/62116, AS 4777, EN 50549-1, G99, CEI 0-21, NRS 097-2-1		
Safety	IEC62040-1, IEC62477-1		
Warranty	10 Years		

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