

THREE PHASE HYBRID INVERTER

PV 5/6/8/10KHB-D3



Energy Storage Inverter



HIGH YIELD

- Max efficiency 98.4%, Battery efficiency 98%
- Max. Charge/Discharge Current 50A
- Reasonable energy control to 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 5KHB-D3	PV 6KHB-D3	PV 8KHB-D3	PV 10KHB-D3
Efficiency				
Max. efficiency (PV to AC)	98.2%	98.2%	98.4%	98.4%
Eur. efficiency (PV to AC)	97.2%	97.2%	97.9%	97.9%
Max. efficiency (BAT)	98.0%			
Input (PV)				
MAX PV Power	8000W	9000W	12000W	15000W
Max PV voltage	1000V			
Max input current (input A/input B)	15A/15A	15A/15A	20A/30A	20A/30A
Max short current (input A/input B)	20A/20A		30A/40A	
MPPT voltage range	160V-950V			
No. of MPPT trackers	2			
String per MPP tracker	1+1		1+2	
Input (BAT)				
Compatible battery type	Lithium-ion / Lead-acid			
Nominal battery voltage	200V-600V			
Battery voltage range	150V-600V			
Max. charge/discharge current	25A/25A	25A/25A	50A/50A	50A/50A
Max. charge/discharge power	8000W/5200W	9000W/6300W	12000W/10500W	15000W/10500W
Lithium battery charge curve	Self-adaption to BMS			
Output (Grid)				
Nominal AC output power	5000W	6000W	8000W	10000W
Rated Apparent Power	5000VA	6000VA	8000VA	10000VA
Max. AC output apparent power	5500VA	6600VA	8800VA	10000VA
Max. AC output power (PF=1)	5500W	6600W	8800W	10000W
Max. AC output current	3*8.3A	3*10A	3*13.3A	3*15.2A
Rated AC voltage	380V / 400V			
AC voltage range	277V-520V (Adjustable)			
Rated grid frequency	50Hz / 60Hz			
AC frequency range	45Hz-55Hz/55Hz-65Hz (Adjustable)			
Grid connection	Three phase			
Power factor	>0.99 @rated power (Adjustable 0.8 LD - 0.8 LG)			
THDI	<3% (Rated Power)			
Output (Back up)				
Nominal output voltage	380V / 400V			
Nominal output frequency	50Hz / 60Hz			
Nominal output power	5000W	6000W	8000W	10000W
Nominal output current	3*7.6A	3*9.1A	3*12.2A	3*15.2A
Transfer time	10ms (typ) / 20ms (max)			
THDV	<3% (R Load), 5% (RCD Load)			
Protection				
Anti-islanding protection	Support			
AC overcurrent protection	Support			
AC short circuit protection	Support			
AC over-voltage protection	Support			
Surge Arrester	DC Type II, AC Type II			
Insulation detection	Support			
GFCI	Support			
AFCI	Optional			
RSD	Optional			
General				
Max. operation altitude	4000m			
Noise emission	30dB			
Ingress protection degree	IP65			
Operating temperature range	-25°C~45°C			
Relative humidity	0~100%			
Cooling concept	Natural Cooling			
Mounting	Wall bracket			
Dimensions (W*H*D)	530mm*550mm*212mm			
Weight	26Kg			29Kg
PV connection way	MC4 / H4			
Battery connection way	Dedicated DC connector			
HMI & COM				
Display	LED+APP (Bluetooth)			
Communication interface	BMS (CAN/RS485), Optional: WiFi/GPRS/4G/Ethernet, DI (DRM/RCR) / Meter (RS485), 1*DO, USB (Firmware upgrade)			
Certification				
Grid	IEC 61727, IEC 62116, EN 50549-1, VDE 4105, AS 4777, CEI 0-21, G98			
Safety	IEC62109-1&2, 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.