

# SINGLE PHASE HYBRID INVERTER

SE 3.6KHB-60, SE 4.6/5/6KHB-120

Energy Storage Inverter



## HIGH YIELD

- Max efficiency 97.3%, Battery efficiency 94.3%
- Max. Charge/Discharge Current 120A
- 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	SE 3K6HB-60	SE 4K6HB-120	SE 5KHB-120	SE 6KHB-120
<b>Efficiency</b>				
Max. efficiency (PV to AC)			97.3%	
Max. efficiency (BAT to AC)			94.3%	
<b>Input (PV)</b>				
MAX PV Power	6300W		9000W	
Max PV voltage		550V		
Max input current (input A/input B)		15A/15A		
Max short current (input A/input B)		20A/20A		
Start operating voltage		90V		
MPPT voltage range		70V-540V		
No. of MPPT trackers		2		
String per MPP tracker		1		
<b>Input (BAT)</b>				
Compatible battery type		Lithium-ion / Lead-acid		
Nominal battery voltage		48V		
Battery voltage range		40V-65V		
Max. charge/discharge current	60A/60A	120A/120A	120A/120A	120A/120A
Max. charge/discharge power	3000W/3000W	6000W/6000W	6000W/6000W	6000W/6000W
Lithium battery charge curve		Self-adaption to BMS		
<b>Output (Grid)</b>				
Nominal AC output power	3600W	4600W	5000W	6000W
Max. AC output apparent power	3600VA	4600VA	5500VA	6000VA
Max. AC output power (PF=1)	3600W	4600W	5500W	6000W
Max. AC output current	16A	22A	25A	27.2A
Rated AC voltage		230V, L+N+PE		
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)		
<b>Output (Back up)</b>				
Nominal output power	3000W	4600W	5000W	6000W
Nominal output current	13A	20A	21.7A	26A
Maximum power(1s)	6000VA	9200VA	10000VA	12000VA
Nominal output voltage		230V, L+N+PE		
Nominal output frequency		50Hz / 60Hz		
Transfer time		10ms (typ) / 20ms (max)		
THDV		<3% @100% R Load		
<b>Protection</b>				
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 III, AC Type III		
Insulation detection		Support		
Leakage current protection		Support		
PV overvoltage category		II		
AC overvoltage category		III		
Gen		Optional		
<b>General</b>				
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		25Kg	
PV connection way		MC4/H4		
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/LAN		
<b>Certification</b>				
Grid		VDE-AR-N4105, IEC 61727/62116, AS 4777.2, EN 50549-1, C10/11, G99, CEI 0-21, NRS 097-2-1, RD 1699/661/413		
Safety		IEC62109-1&2, IEC62477-1		
Warranty		5 Years /10 Years (Optional)		

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