

# SINGLE PHASE HYBRID INVERTER

SE 3/3.6/3.68/4.6/5/6KHB-D1/LV-S



## Features

LCD touch color screen, easy to operate

Support high power PV panel with 18A PV input current

Max battery charge/discharge current of 135A

Support generator/smart load/AC coupling

Support up to 9pcs in parallel

Compact and lightweight, easy to transport and space-saving

Model	SE 3KHB-D1/LV-S	SE 3K6HB-D1/LV-S	SE 3K68HB-D1/LV-S	SE 4K6HB-D1/LV-S	SE 5KHB-D1/LV-S	SE 6KHB-D1/LV-S
<b>Efficiency</b>						
Max. Efficiency (PV to AC)	97.3%					
Eur. Efficiency (PV to AC)	96.8%					
Max. Efficiency (BAT to AC)	94.3%					
<b>Input (PV)</b>						
Max. PV Input Power	10,000W					
Max. PV Voltage	550V					
Start-up Voltage	90V					
MPPT Voltage Range	70V-540V					
Max. Input Current	18A/18A					
Max. Short Circuit Current	25A/25A					
Nos. of MPPT	2					
String per MPPT	1/1					
<b>Input/Output (BAT)</b>						
Battery Type	Lithium-ion/Lead-acid					
Nominal Battery Voltage	48V					
Battery Voltage Range	40V-65V					
Max. Charging/Discharging Current	75A/75A		110A/110A		135A/135A	
Max. Charging/Discharging Power	4,000W/4,000W		5,500W/ 5,500W		6,600W/ 6,600W	
<b>Input/Output (Grid)</b>						
Nominal AC Output Power	3,000W	3,600W	3,680W	4,600W	5,000W	6,000W
Max. AC Apparent Power	3,300VA	3,960VA	3,680VA	4,600VA	5,500VA	6,600VA
Max. AC Output Power (PF=1)	3,300W	3,960W	3,680W	4,600W	5,500W	6,600W
Max. AC Output Current	15A	18A	16.7A	21A	25A	28.7A
Max. Input Power From Grid	9,000W					
Max. Input Current From Grid	41A					
Rated Grid Voltage	220V/230V/240V, L+N+PE					
Grid Voltage Range	150V-300V (Adjustable)					
Rated Grid Frequency	50Hz/60Hz					
AC Frequency Range	45Hz-55Hz/55Hz-65Hz (Adjustable)					
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	3,000W	3,600W	3,680W	4,600W	5,000W	6,000W
Rated AC Output Current	13.6A/13.0A/12.5A	16.4A/15.7A/15.0A	16.7A/16.0A/15.3A	20.9A/20.0A/19.2A	22.7A/21.7A/20.8A	27.3A/26.1A/25.0A
Peak Output Power (1min)	3,600VA	4,320VA	4,416VA	5,520VA	6,000VA	7,200VA
Peak Output Power (10S)	6,000VA	7,200VA	7,360VA	9,200VA	10,000VA	10,000VA
Nominal Output Voltage	220V/230V/240V, L+N+PE					
Nominal Output Frequency	50Hz/60Hz					
Transfer Time	10ms (typical)					
THDV	<3% (@100% R Load)					
<b>Protection</b>						
Protection Category	Class I					
DC Switch	Yes					
Anti-islanding Protection	Yes					
AC Over Current Protection	Yes					
PV/AC Over Voltage Protection	DC Type II, AC Type III					
AC Short Circuit Protection	Yes					
PV Reverse Protection	Yes					
Surge Arrester	DC Type III, AC Type III (Type II Optional)					
Insulation Detection	Yes					
Leakage Current Protection	Yes					
<b>General</b>						
Max. Operation Altitude	4000m (>2000m derating)					
Protection Degree	IP65					
Operating Temperature Range	-25 C ~60 C (>45 C derating)					
Relative Humidity	0~100%					
Cooling	Natural Cooling					Smart Fan Cooling
Mounting	Wall bracket					
Dimensions (W*H*D)	367mm*421mm*215mm					
Weight	16Kg					
<b>HMI &amp; COM</b>						
Display	LED, LCD					
Communication	RS485/CAN (for BMS), RS485 (for Meter), DRMs, CAN (for parallel), 2*DO, 2*DI, USB (for Wi-Fi/LAN, optional)					
<b>Certification</b>						
Grid	IEC 61727/62116/61683, NRS 097-2-1, G98, G99, VDE4105, EN50549-1/-10, AS4777.2					
Safety	IEC/EN 62109-1&2					
EMC	IEC/EN 61000/62920					
Warranty	5 Years/10 Years (Optional)					

Remarks: · The range of output voltage and frequency may vary depending on different grid codes.  
· Specifications are subject to change without advanced notice.