

## SE 3/3.6/5/6KHB-D1/LV-ECO

Application: Residential Use



### Excellent Performance

- 200% PV oversizing, 9kW usable PV power
- Max. 18A+18A PV input current with 2 MPPTs
- Max battery charge/discharge current of 135A
- Max. Grid Passthrough Current of 41A



### High Flexibility

- Support 40-60V Lithium or Lead-acid battery
- Support generator/smart load/AC coupling
- Support multiple units in parallel
- 3 inverters in parallel for three phase



### Safety & Reliability

- IP65: Indoor or outdoor installation
- Seamless transition to backup mode, for protection against power outages
- Compact and lightweight, easy to transport and space-saving



### Intelligent Maintenance

- 4.3" LCD color touchscreen, easy to operate
- 6 time periods for battery charging/discharging
- Built-in WiFi, supporting remote monitoring and upgrade



SINGLE  
PHASE  
& LV  
BATTERY



SE 3KHB-D1/LV-ECO

SE 3K6HB-D1/LV-ECO

SE 5KHB-D1/LV-ECO

SE 6KHB-D1/LV-ECO

**Efficiency**

Max. Efficiency (PV to AC)	97.3%
Eur. Efficiency (PV to AC)	96.8%
Max. Efficiency (BAT to AC)	94.3%

**Input (PV)**

Max. PV Access Power	12,000W
Max. PV Usable Power	9,000W
Max. PV Voltage	500V
Start-up Voltage	90V
MPPT Voltage Range	70V-480V
Max. Input Current	18A/18A
Max. Short Circuit Current	25A/25A
Nos. of MPPT	2
String per MPPT	1/1

**Input/Output (BAT)**

Battery Type	Lithium-ion/Lead-acid			
Nominal Battery Voltage	48V			
Battery Voltage Range	40V-60V			
Max. Charging/Discharging Current	75A/75A	75A/75A	110A/110A	135A/135A
Max. Charging/Discharging Power	4,000W/4,000W	4,000W/4,000W	5,500W/5,500W	6,600W/6,600W

**Input/Output (Grid)**

Nominal AC Output Power	3,000W	3,600W	5,000W	6,000W
Max. AC Apparent Power	3,300VA	3,960VA	5,500VA	6,600VA
Rated AC Output Current	13.6A/13.0A/12.5A	16.4A/15.7A/15.0A	22.7A/21.7A/20.8A	27.3A/26.1A/25.0A
Max. AC Output Current	15A	18A	25A	28.7A
Max. Input Power From Grid	9,000W			
Max. Grid Passthrough Current	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)			

**Output (Back up)**

Nominal Output Power	3,000W	3,600W	5,000W	6,000W
Max. Output Power	3,300VA	3,960VA	5,500VA	6,600VA
Rated AC Output Current	13.6A/13.0A/12.5A	16.4A/15.7A/15.0A	22.7A/21.7A/20.8A	27.3A/26.1A/25.0A
Peak Output Power (1min)	3,600VA	4,320VA	6,000VA	7,200VA
Peak Output Power (10S)	6,000VA	7,200VA	9,300VA	9,300VA
Nominal Output Voltage	220V/230V/240V, L+N+PE			
Nominal Output Frequency	50Hz/60Hz			
Transfer Time	10ms (Typical)			
THDV	<3% @100% R Load			

**Protection**

Protection Category	Class I
PV Switch	Optional
Anti-islanding Protection	Yes
AC Over Current Protection	Yes
Over Voltage Protection	Yes
AC Short Circuit Protection	Yes
PV Reverse Protection	Yes
Surge Arrester	Type III

**General**

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	Natural Cooling	Natural Cooling	Smart Fan Cooling
Mounting	Wall bracket			
Dimensions (W*H*D)	367mm*421mm*215mm			
Weight	15.5Kg			

**HMI & COM**

Display	LED+LCD
Communication	CAN (for BMS), RS485, CAN (for parallel), 1*DO, 1*DI, Wi-Fi, LAN (Optional)

**Certification**

Safety	IEC/EN 62109-1/2
EMC	IEC/EN 61000-6-1/2/3/4
Warranty	5 Years

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



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