

Bolt 3 - 6 KW

Application: Residential Use



Excellent Performance

- Support high power PV panel with 18A PV input current
- Max battery charge/discharge current of 135A
- Continuous 110% of nominal AC power



Safety & Reliability

- IP65: Indoor or outdoor installation
- Seamless transition to backup mode, for protection against power outages
- Multiple built-in protections



High Flexibility

- Support 40-65V Lithium or Lead-acid battery
- Max. 9 units parallel for on-grid and off-grid operation
- Support generator/smart load/AC coupling
- Compact and lightweight, easy to transport and space-saving



Intelligent Maintenance

- Intelligent Management, local & remote monitoring
- 3 application modes, mixed with battery scheduling
- 4.3" LCD color touchscreen, easy to operate



SINGLE
PHASE
& LV
BATTERY

Efficiency						
Max. Efficiency	97.3%					
European Efficiency	96.8%					
Input (PV)						
Max. PV Usable Power	10,000W					
Max. PV Input Voltage	550V					
Start-up Voltage	90V					
MPPT Operating Voltage Range	70V-540V					
Max. Input Current per MPPT	18A/18A					
Max. Short Circuit Current per MPPT	25A/25A					
No. of MPP Trackers	2					
No. of Strings per MPP Tracker	1/1					
Input/Output (BAT)						
Battery Type	Lithium-ion/Lead-acid					
Nominal Battery Voltage	48V					
Battery Voltage Range	40V-65V					
Max. Charge/Discharge Current	75A/75A	75A/75A	75A/75A	110A/110A	110A/110A	135A/135A
Max. Charge/Discharge Power	4,000W/4,000W	4,000W/4,000W	4,000W/4,000W	5,500W/ 5,500W	5,500W/ 5,500W	6,600W/ 6,600W
Input/Output (Grid)						
Nominal AC Output Power	3,000W	3,600W	3,680W	4,600W	5,000W	6,000W
Max. AC Output 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. Grid Input Power	7,500W	7,500W	7,500W	9,000W	9,000W	9,000W
Max. Input Current	34A	34A	34A	41A	41A	41A
Nominal Voltage	220V/230V/240V, L+N+PE					
Grid Voltage Range	150V-300V (Adjustable)					
Nominal 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% @ R Load					
Output (Back up)						
Nominal AC Output Power	3,000W	3,600W	3,680W	4,600W	5,000W	6,000W
Nominal 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 Apparent Power	120% @ 1min					
Peak Output Apparent Power	200% @ 10s	200% @ 10s	200% @ 10s	200% @ 10s	200% @ 10s	166% @ 10s
Nominal Voltage	220V/230V/240V, L+N+PE					
Nominal Frequency	50Hz/60Hz					
Transfer Time	10ms (Typical)					
THDV	< 3% @ R Load					
Protection						
Protection Category	Class I					
PV Switch	Yes					
Anti-islanding Protection	Yes					
Overcurrent Protection	Yes					
Overvoltage Protection	DC Type II, AC Type III					
AC Short Circuit Protection	Yes					
PV Reverse Polarity Protection	Yes					
Surge Protection	Type III (Type II, Optional)					
Insulation Resistance Detection	Yes					
Residual Current Protection	Yes					
General						
Max. Operation Altitude	4,000m (>2,000m derating)					
Ingress Protection Degree	IP65					
Operating Temperature Range	-25°C~60°C (>45°C derating)					
Relative Humidity	0~100%					
Cooling Method	Natural Cooling	Natural Cooling	Natural Cooling	Natural Cooling	Natural Cooling	Smart Cooling
Mounting	Wall bracket					
Dimensions (W*H*D)	367mm*421mm*215mm					
Weight	16kg					
HMI & COM						
Display	LED+LCD					
Communication Interface	RS485/CAN (for BMS), RS485 (for Meter), DRMs, CAN (for parallel), 2*DO, 2*DI, Wi-Fi/LAN (Optional)					
Certification						
Grid Code	IEC 61727/62116/61683/60068, G98/G99/G100, EN 50549-1/-10, CEI 0-21					
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.