

Energy Bank



| MODEL | EB 36 | EB 72 | EB 107 | EB 143 |
|--|-------------------------------------|-------|--------|--------|
| Max.DC Input Power | 5000W | | | |
| DC INPUT DATA (SOLAR) | | | | |
| Max.DC Power | 4600W | | | |
| Max.DC Voltage | 580 V | | | |
| MPPT voltage Range | 100-500V | | | |
| Start-up Voltage | 110V | | | |
| Min. DC Voltage | 75V | | | |
| No. of MPP Trackers | 2 | | | |
| No. of Input Strings per Tracker | 1 | | | |
| Max. DC Input Current | 12A/12A | | | |
| Type of DC Connector | MC4 | | | |
| DC Switch | Intergrated | | | |
| AC OUTPUT DATA (ON-GRID) | | | | |
| Rated AC Power | 4600W | | | |
| Max.output power | 4600W | | | |
| Max. AC Current | 21.7A | | | |
| Nominal AC Voltage/Range | 230V/180-270V | | | |
| Grid frequency/ range | 50HZ/60HZ 45~55HZ/55~65HZ | | | |
| Power Factor[cos ϕ] | 0.8leading ~0.8lagging (full load) | | | |
| Total Harmonic Distortion [THDi] | <3% | | | |
| AC OUTPUT DATA (BACK-UP) | | | | |
| Max. Output Apparent Power | 3000W | | | |
| Nominal output voltage | 230V | | | |
| Nominal output frequency | 50/60HZ | | | |
| Max.output current | 13A | | | |
| Total Harmonic Distortion [THDi] at reted output | <3% | | | |
| Automatic switch time | <5s | | | |
| Peak power, Duration | 4500W, 10S | | | |

| BATTERY INPUT DATA | | | | | |
|-------------------------------------|--|--|-------|--------|--------|
| Norminal Battery Voltage | | 48V | | | |
| Battery Voltage Range | | 40-60V | | | |
| Max. Charging / Discharging Current | | 60A | | | |
| Communication Interface | | CAN | | | |
| GENERAL DATA INVERTER | | | | | |
| Size(Width*Height*Depth) | | 526*528*178mm | | | |
| Weight | | 29.5KG | | | |
| Mounting | | Wall Hangings | | | |
| User Interface | | LCD | | | |
| Communication | | Ethernet(standard), RS485(Optional), Wifi(Optional) | | | |
| Ambient Temperature Range | | -25 °C ~ 60 °C (> 45 °C Derating Operation) | | | |
| Relative Humidity | | 0-98% (No condensation) | | | |
| Operating Altitude | | 4000m (>2000m derating Operation) | | | |
| Standby Self Consumption | | <1W | | | |
| Topology | | Transformerless | | | |
| Cooling | | Natural Convection | | | |
| Protection Grades | | IP65 | | | |
| Noise | | <35db | | | |
| Warranty | | 8 year(Standard) | | | |
| EFFICIENCY | | | | | |
| Max.Efficiency | | 97.60% | | | |
| Euro Efficiency | | 97.00% | | | |
| MPPT Accuracy | | 99.9% | | | |
| PROTECTION | | | | | |
| DC Insulation Monitoring | | Intergrated | | | |
| Input Reverse Polarity Protection | | Intergrated | | | |
| Output Over Current Protection | | Intergrated | | | |
| Anti-island Protection | | Intergrated | | | |
| GFCI Monitoring | | Intergrated | | | |
| OverHeat Protection | | Intergrated | | | |
| SPD | | Standard (TypeII, IEC61643-11:2011/EC61643-11:2012/UL1449 Ed.4/ EN50539-11:2013 | | | |
| CERTIFICATION & STANDARDS | | | | | |
| Grid Regulation | | VDE-AR-N-4105, VDE 0126-1-1+A1, CE, G59/3, UTE C15-712-1, MEA, PEA, AS4777, EN 50549-1,NB/T 32004-2013,CEI-021 | | | |
| Safety Regulation | | IEC 62109-1, IEC 62109-2,AS/NZS 3100 | | | |
| EMC | | EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 61000-4-16, EN 61000-4-18, EN 61000-4-29 | | | |
| MODEL | | EB 36 | EB 72 | EB 107 | EB 143 |
| Battery Type | | LiFePO4 | | | |
| Module Numbers | | 1 pc | 2 pcs | 3 pcs | 4 pcs |
| Case Numbers | | 1 pc | 1 pc | 2 pcs | 2 pcs |

| | | | | |
|---|------------------------------------|----------|-----------|-----------|
| NOMINAL CHARACTERISTICS | | | | |
| Nominal Voltage | 51.2V | | | |
| Battery Capacity | 70Ah | 140 Ah | 210 Ah | 280 Ah |
| Nominal Battery Energy | 3.58 KWh | 7.16 KWh | 10.74 KWh | 14.32 KWh |
| Peak Output Current | 70A | 140 A | 210 A | 280 A |
| ELECTRICAL SPECIFICATIONS | | | | |
| Voltage Range | 44.8-57.6V | | | |
| Max.Charging Current | 70A | | | |
| Max.Discharging Current | 70A | | | |
| MECHANICAL SPECIFICATIONS | | | | |
| Net Weight | 59kg | 94 | 153 | 188 |
| Demension | 526*170*1000mm (pr case) | | | |
| Ingress Rating | IP65 | | | |
| Color | White(Customizable) | | | |
| Cooling | Natural Convection | | | |
| COMMUNICATION SPECIFICATIONS | | | | |
| Communication Port | CAN/RS485 | | | |
| OPERATION CONDITIONS | | | | |
| Operation Temperature Range / Recommended | -10°C - 50°C / 0°C - 35°C | | | |
| Operation Humidity | 5% - 95% | | | |
| Altitude | <2000m | | | |
| Storage Conditions | -10°C - 35°C | | | |
| Cycles | > 6000 Cycles | | | |
| PROTECTION | | | | |
| OverCharge/Overdischarge Protection | Integrated | | | |
| OverCurrent Protection | Integrated | | | |
| Overtemperature Protection | Integrated | | | |
| Short Circuit Protection | Integrated | | | |
| CERTIFICATION | | | | |
| Certification | CE/EN62619 /EN61000 / UN38.3 /ROHS | | | |