

# ANYTIME, ANYWHERE REMOTE MONITORING PLATFORM

Monitor system performance in real-time via smartphone APP or Web portal using our advanced monitoring platform.



## 1PH-Hybrid Inverter

3.6kW/4.6kW/5.0KW/6.0kW



Fast charging or discharging  
up to 120A



Fanless cooling design, long  
lifespan and quiet performance



Seamless transition to backup  
mode, <10 ms UPS-level switching



Parallel connection up to 9



IP65 outdoor and indoor application



Feed-in limitation function (zero export)



PV system oversizing up to 9KW



Support for both local and remote  
communication



# 1PH-Hybrid Inverter

3.6kW/4.6kW/5.0kW/6.0kW

| Model                         | BE3.6KW-1PH   | BE4.6KW-1PH                                   | BE5KW-1PH  | BE6KW-1PH     |
|-------------------------------|---------------|---|--|---------------|
| <b>Efficiency</b>             |               |   |  |               |
| Max. Efficiency (PV to AC)    |               |   | 97.3%  |               |
| Max. Efficiency (BAT to AC)   |               |   | 94.3%  |               |
| Euro. Efficiency (PV to AC)   |               |   | 96.8%  |               |
| <b>Input (PV)</b>             |               |   |  |               |
| Max. PV Input Power           | 6,300W        |   | 9,000W   |               |
| Max. PV Voltage               |               |   | 550V   |               |
| Start-up Voltage              |               |   | 90V  |               |
| MPPT Voltage Range            |               |   | 70V-540V   |               |
| Max. Input Current            |               |   | 15A/15A  |               |
| Max. Short Circuit Current    |               |   | 20A/20A  |               |
| 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. Charge/Discharge Current | 60A/60A       | 120A/120A                                     | 120A/120A  | 120A/120A     |
| Max. Charge/Discharge Power   | 3,000W/3,000W | 6,000W/6,000W                                 | 6,000W/6,000W  | 6,000W/6,000W |
| <b>Output (Grid)</b>          |               |   |  |               |
| Nominal AC Output Power       | 3,600W        | 4,600W  | 5,000W   | 6,000W        |
| Max. AC Apparent Power        | 3,960VA       | 4,600VA                                       | 5,500VA  | 6,000VA       |
| Max. AC Output Power (PF=1)   | 3,960W        | 4,600W  | 5,500W   | 6,000W        |
| Max. AC Output Current        | 18A           | 22A   | 25A  | 27.2A         |
| Nominal Grid Voltage          |               | 220V/230V/240V, L+N+PE                        |  |               |
| Grid Voltage Range            |               | 150V-300V (Adjustable)                        |  |               |
| Nominal Grid Frequency        |               | 50Hz/60Hz                                     |  |               |
| Grid 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        | 4,600W  | 5,000W   | 6,000W        |
| Nominal Output Current        | 13A           | 20A   | 21.7A  | 26A           |
| Peak Power (>1s)              | 4,500VA       | 6,900VA                                       | 7,500VA  | 9,000VA       |
| Nominal Output Voltage        |               | 220V/230V/240V, L+N+PE                        |  |               |
| Nominal Output Frequency      |               | 50Hz/60Hz                                     |  |               |
| Transfer Time                 |               | <10ms   |  |               |
| THDV                          |               | <3%@100%R Load                                |  |               |
| <b>Protection</b>             |               |   |  |               |
| Protection Category           |               |   | Class I  |               |
| DC Switch                     |               |   | Yes  |               |
| Anti-islanding Protection     |               |   | Yes  |               |
| AC Over Current Protection    |               |   | Yes  |               |
| AC Over Voltage Protection    |               |   | Yes  |               |
| AC Short Circuit Protection   |               |   | Yes  |               |
| DC Reverse Protection         |               |   | Yes  |               |
| Surge Arrester                |               |   | DC Type III, AC Type III   |               |
| PV Insulation Detection       |               |   | Yes  |               |
| Leakage Current Protection    |               |   | Yes  |               |
| <b>General</b>                |               |   |  |               |
| Max.Operation Altitude        |               |   | 4000m (>2000m derating)  |               |
| Protection Degree             |               |   | IP65   |               |
| Operating Temperature Range   |               |   | -25~60°C (>45°C derating)  |               |
| Relative Humidity             |               |   | 0~100%   |               |
| Cooling                       |               |   | Natural Cooling  |               |
| Mounting                      |               |   | Wall bracket   |               |
| Dimensions (W*H*D)            |               |   | 570mm*495mm*175mm  |               |
| Weight                        | 20kg          |   | 25kg   |               |
| PV Connection                 |               |   | MC4/H4   |               |
| Battery Connection            |               |   | Dedicated DC connector   |               |
| AC Connection                 |               |   | Dedicated AC connector   |               |
| <b>HMI &amp; COM</b>          |               |   |  |               |
| Display                       |               |   | LED+APP  |               |
| Communication Interface       |               |   | RS485/CAN (for BMS), RS485, USB, DRM/RS485 (for Meter), Optional: Wi-Fi/GPRS/LAN |               |
| <b>Certification</b>          |               |   |  |               |
| Grid                          |               |   | IEC 61727, EN 50549-1, G99, CEI 0-21, RD1699/661/647/413, NTS, UNE 217001        |               |
| Safety and EMC                |               |   | IEC 62109-1/2, EN 62109-1/2, IEC 61000   |               |
| Warranty                      |               |   | 5 Years/10 Years 15 (Optional)   |               |

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