


EC08P3H / EC10P3H / EC12P3H / EC15P3H  
Three Phase Hybrid Inverter (HV)

### Product Features

  
Off-grid or Grid-tied  
All-in-one  
Hybrid Inverter

  
Wide Range of  
Battery Voltage  
180~750V

  
Efficient  
1.5~2  
DC/AC Ratio

  
UPS Function with  
10ms Automatic  
Switchover

  
100% Three-phase  
Imbalance  
Output

  
Advanced  
Intelligent  
Monitoring

  
IP65 Dustproof  
and Waterproof  
Rating

  
Smart Phase-level  
Power Export  
Limitation

### Technical Specification

| Model                               | EC08P3H  | EC10P3H     | EC12P3H           | EC15P3H     |
|-------------------------------------|--|-------------|-------------------|-------------|
| <b>Battery Input Data</b>           |  |             |                   |             |
| Battery Type                        | Lithium battery  |             |                   |             |
| Battery Voltage Range(V)            | 180-750  |             |                   |             |
| Max. Charge/Discharge Current(A)    | 30/30  |             |                   |             |
| Max.Charge/Discharge Power(W)       | 8800   | 11000       | 13200             | 15000       |
| <b>PV String Input Data</b>         |  |             |                   |             |
| Max.PVInput Power(W)                | 17000  | 21500       | 22500             | 22500       |
| Max. PVInput Voltage(V)             | 1000   |             |                   |             |
| MPPT Range(V)                       | 200-850  |             |                   |             |
| SPS Start-up Voltage (V)            | 180  |             |                   |             |
| MPPT Range For Nominal Power(V)     | 280-800  | 350-800     | 280-800           | 350-800     |
| Nominal PV Input Voltage (V)        | 620  |             |                   |             |
| Max.Input Current(A)                | 15/15  | 15/15       | 15/30             | 15/30       |
| Max.Short Current(A)                | 20/20  | 20/20       | 20/40             | 20/40       |
| No.of MPP Trackers                  | 2  |             |                   |             |
| Strings per MPP Tracker             | 1  |             | 1/2               |             |
| <b>AC Output Data(On-grid)</b>      |  |             |                   |             |
| Nominal Power Output To Grid(VA)    | 8000   | 10000       | 12000             | 15000       |
| Max. Power Output To Grid(VA)*      | 8000   | 10000       | 12000             | 15000       |
| Max. Power From Grid (VA)           | 16000  | 20000       | 24000             | 25000       |
| Nominal Output Voltage(V)           | 400/380,3L/N/PE  |             |                   |             |
| Nominal Output Frequency(Hz)        | 50/60  |             |                   |             |
| Max. AC Current To Grid(A)          | 12.1   | 15.2        | 18.2              | 22.7        |
| Max. AC Current From Grid (A)       | 24.2   | 30.3        | 36                | 36          |
| Output Power Factor                 | 1(Adjustable from 0.8 leading to 0.8 lagging)  |             |                   |             |
| Outpur THDI(Nominal Power)          | < 3%   |             |                   |             |
| <b>AC Output Data (Back-up)</b>     |  |             |                   |             |
| Max.Output Power(VA)                | 8000   | 10000       | 12000             | 15000       |
| Peak Output Power(VA)**             | 16000,1sec   | 20000,10sec | 24000,10sec       | 24000,10sec |
| Max.Ouput Current(A)                | 12.1   | 15.2        | 18.2              | 22.7        |
| Nominal Output Voltage (Vac)        | 3/N/PE,220/380,230/400   |             |                   |             |
| Nominal Output Frequency(Hz)        | 50/60  |             |                   |             |
| Outpur THDv(@Linear Load)           | < 3%   |             |                   |             |
| Switch time                         | < 10ms   |             |                   |             |
| Load Control                        | YES  |             |                   |             |
| Three Phase Unbalance               | YES  |             |                   |             |
| <b>Protection and communication</b> |  |             |                   |             |
| Protection                          | Anti-island Protection: Integrated, PV&Battery AFCI: Optional, PV Reverse Protection: Optional, Battery Reverse Protection: Optional, Residual Current Monitoring Unit: Optional, Over Current/Voltage Protection: Optional, DC Switch(PV): Optional, Surge Protection: DC Type II / AC Type III |             |                   |             |
| Communication Interface             | Battery BMS: CAN, EMS: RS485, Meter: RS485, DRED/RCR: YES(DI), Remote Shut Down: YES(DI), Dry-Point: YES(DO), Cloud: Wi-Fi,Bluetooth,4G(Optional), Display/UserInterface: LED/APP  |             |                   |             |
| <b>Efficiency</b>                   |  |             |                   |             |
| MPPT efficiency                     | 99.90%   | 99.90%      | 99.90%            | 99.90%      |
| Max. efficiency                     | 98.30%   | 98.30%      | 98.40%            | 98.40%      |
| Euro-efficiency                     | 97.50%   | 97.60%      | 97.60%            | 97.60%      |
| <b>General Data</b>                 |  |             |                   |             |
| Operating Temperature Range(°C)     | -25~60   |             |                   |             |
| Relative Humidity(%)                | 0-100%   |             |                   |             |
| Operating Altitude(m)               | ≤2000  |             |                   |             |
| Cooling                             | Nature Cooling   |             | Smart Fan Cooling |             |
| Noise(dB)                           | < 35   |             | < 50              |             |
| Weight(kg)                          | 29   |             |                   |             |
| Size(W/H/D)(mm)                     | 500*550*218  |             |                   |             |
| Installation                        | Wall-Mounted   |             |                   |             |
| IP Code                             | IP65   |             |                   |             |
| <b>Certifications&amp;Standards</b> |  |             |                   |             |
| Grid Regulation                     | CEI0-21;VDE4105-ARN;VDE0126-1-1;EN50549;G98,G99,G100   |             |                   |             |
| Safety Regulation                   | IEC62109-1&2   |             |                   |             |
| EMC                                 | EN610006-1,EN61000-6-2,EN610006-3,EN61000-6-4,EN61000-4-16,EN61000-4-18,EN61000-4-29   |             |                   |             |