

# Single Phase Off-grid Inverter



## PV15000-48 S12.0



Built-in 160A  
Solar Charger



Wide PV Input Voltage  
Range 60-500V



Dual MPPTs  
Input



27A+27A  
MAX PV Input

DUAL

Dual AC Out

BMS

Support Lithium/  
Lead-acid Battery



Lithium Battery  
Activation



5 Inch Display

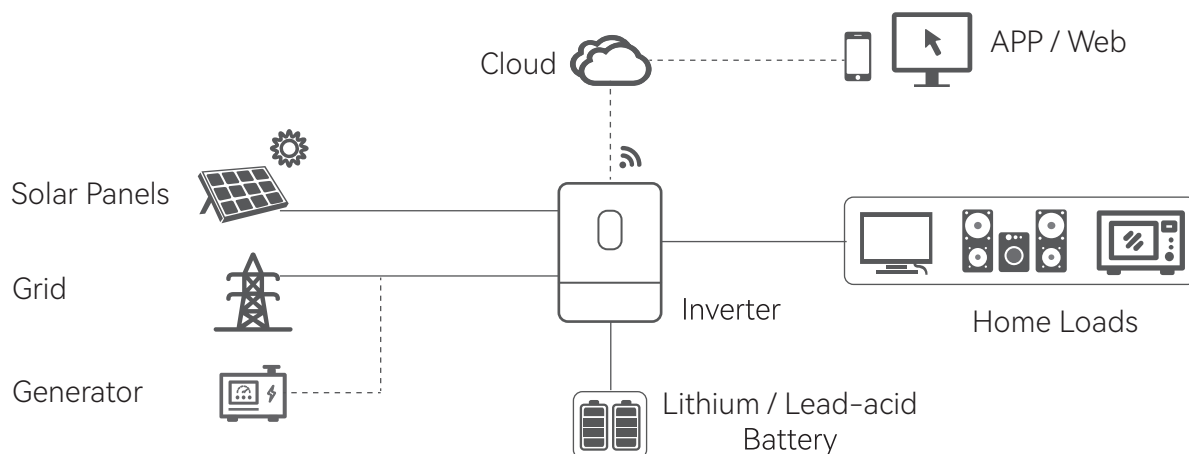


Feed-in  
to Grid



WiFi  
Monitoring(optional)

### System Diagram



| Model                                        | PV15000-48 S12.0                                                  |
|----------------------------------------------|-------------------------------------------------------------------|
| <b>AC Input</b>                              |                                                                   |
| Rated Input Voltage (VAC)                    | 220 / 230 / 240; L+N+PE                                           |
| Voltage Range (VAC)                          | 90-280 (APP/GEN mode); 170-264 (UPS mode)                         |
| Frequency (Hz)                               | 50 / 60(Auto Adaptive)                                            |
| <b>AC Output</b>                             |                                                                   |
| Rated Capacity (kVA/kW)                      | 12                                                                |
| Surge Power (kVA)                            | 24                                                                |
| Voltage (VAC)                                | 220/230/240                                                       |
| Power Factor (PF)                            | 1                                                                 |
| Frequency (Hz)                               | 50 / 60                                                           |
| Switch Time (ms)                             | 10(APP/UPS mode), 20(GEN mode)                                    |
| Wave Form                                    | Pure Sine                                                         |
| Overload Capacity(PV+Battery mode / PV Mode) | 1min@102%-125% Load; 10s@125%-200% Load                           |
| Max. Efficiency (Battery Mode)               | 94%@48VDC                                                         |
| Parallel Quantity                            | NA                                                                |
| <b>Charger (PV / AC)</b>                     |                                                                   |
| Solar Charger Type                           | Dual MPPTs                                                        |
| Max. PV input current (A) / Input power (W)  | Using One MPPT: 27A/9KW Using Two MPPTs: 27A/Per MPPT, 15KW/Total |
| MPPT Range@Operating Voltage (VDC)           | 60 - 450                                                          |
| Max. PV Open Circuit Voltage (VDC)           | 500                                                               |
| Max. PV Charge Current (A)                   | 160                                                               |
| Max. AC Charge Current (A)                   | 160                                                               |
| Max. Charge Current (PV + AC) (A)            | 160                                                               |
| <b>Battery</b>                               |                                                                   |
| Rated Voltage (VDC)                          | 48                                                                |
| Max. Charging Current (A)                    | 160                                                               |
| Max. Discharging Current (A)                 | 220                                                               |
| Battery Type                                 | Lithium / Lead-acid                                               |
| <b>Interface</b>                             |                                                                   |
| HMI                                          | LCD                                                               |
| Interface                                    | RS232 / RS485 / CAN                                               |
| Monitoring                                   | WiFi (optional/built-in/external)                                 |
| <b>General Data</b>                          |                                                                   |
| Ingress Protection                           | IP54                                                              |
| Operating Temperature (°C)                   | -10 ~ 60                                                          |
| Relative Humidity                            | 5% - 95%(Non-condensing)                                          |
| Storage Temperature (°C)                     | -15 ~ 60                                                          |
| Net Weight (kg)                              | 15                                                                |
| Dimensions (HxWxD) (mm)                      | 495x425x120 (without bracket)                                     |
| Max. Operating Altitude (m)                  | 4000 (Derating above 2000)                                        |