

# Single Phase Hybrid Inverter

MAXHUB



## PV9000-48 S6.0



Built-in 120A  
Solar Charger



Wide PV Input Voltage  
Range 60-500V



27A  
MAX PV Input

DUAL

Dual AC Out



5 Inch Display

BMS

Support Lithium/  
Lead-acid Battery



Lithium Battery  
Activation

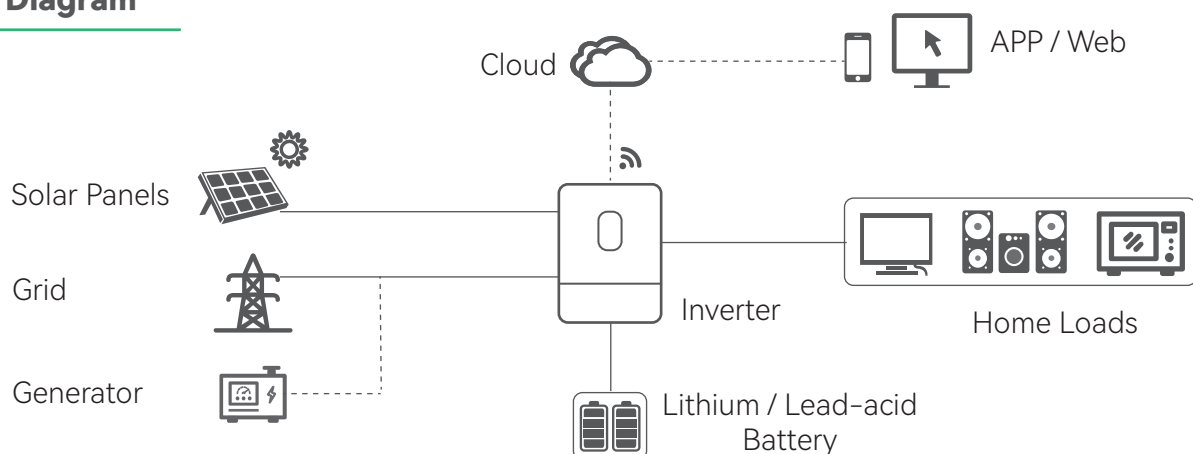


Feed-in  
to Grid



WiFi  
Monitoring(built-in)

### System Diagram



# Specifications

| Model                              | PV9000-48 S6.0                                                                                                                                  |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>AC Input</b>                    |                                                                                                                                                 |
| Rated Input Voltage (VAC)          | 208 / 220 / 230 / 240; L + N + PE                                                                                                               |
| Voltage Range (VAC)                | 90~280±3 (normal mode); 170~280±3 (UPS mode)                                                                                                    |
| Frequency (Hz)                     | 50 / 60 (Auto Adaptive)                                                                                                                         |
| <b>AC Output</b>                   |                                                                                                                                                 |
| Rated Capacity (kW)                | 6                                                                                                                                               |
| Surge Power (kVA)                  | 12                                                                                                                                              |
| Voltage (VAC)                      | 208 / 220 / 230 / 240                                                                                                                           |
| Power Factor (PF)                  | 1                                                                                                                                               |
| Frequency                          | 50/60Hz±0.1%                                                                                                                                    |
| Switch Time (ms)                   | 10 (normal mode) / 10 (UPS mode)                                                                                                                |
| Wave Form                          | Pure Sine Wave                                                                                                                                  |
| Overload Capacity (Battery Mode)   | Previous continuous load < 2.5kW:<br>15min@102%~108% load; 1min@108%~120% load; 10s@ > 120% load<br>Or<br>1min@102%~120% load; 10s@ > 120% load |
| Max. Efficiency (Battery Mode)     | 94%@48VDC                                                                                                                                       |
| Parallel Quantity                  | NA                                                                                                                                              |
| <b>Charger (PV / AC)</b>           |                                                                                                                                                 |
| Solar Charger Type                 | MPPT                                                                                                                                            |
| Max PV Input Current / Input Power | 27A / 9000W                                                                                                                                     |
| MPPT Range@Operating Voltage (VDC) | 60-450                                                                                                                                          |
| Max PV Open Circuit Voltage (VDC)  | 500                                                                                                                                             |
| Max PV Charge Current (A)          | 120                                                                                                                                             |
| Max AC Charge Current (A)          | 120                                                                                                                                             |
| Max. Charge Current (PV + AC) (A)  | 120                                                                                                                                             |
| <b>Battery</b>                     |                                                                                                                                                 |
| Rated Voltage (VDC)                | 48                                                                                                                                              |
| Floating Charge Voltage (VDC)      | 54                                                                                                                                              |
| Overcharge Protection (VDC)        | 61                                                                                                                                              |
| Battery Type                       | Lithium and Lead-acid                                                                                                                           |
| <b>Interface</b>                   |                                                                                                                                                 |
| HMI                                | LCD                                                                                                                                             |
| Interface                          | RS232 / RS485 / CAN                                                                                                                             |
| Monitoring                         | WiFi (built-in)                                                                                                                                 |
| <b>General Data</b>                |                                                                                                                                                 |
| Ingress Protection                 | IP21                                                                                                                                            |
| Operating Temperature              | -10 °C - 60 °C                                                                                                                                  |
| Relative Humidity                  | 5% ~ 95% (Non-condensing)                                                                                                                       |
| Storage Temperature                | -15 °C - 60 °C                                                                                                                                  |
| Net Weight (kg)                    | 8.4                                                                                                                                             |
| Dimensions (H*W*D)                 | 410*336*110mm                                                                                                                                   |
| Max. Operating Altitude            | 4000m (Derating above 1000m)                                                                                                                    |