

# Single Phase Solar Inverter



## PAE-EVO-4000



Built-in 100A Solar Charger



Wide MPPT Range 40-500V



Workable with Generator



Complete CE Certificate



BMS Support Lithium/Lead-acid Battery



Lithium Battery Activation

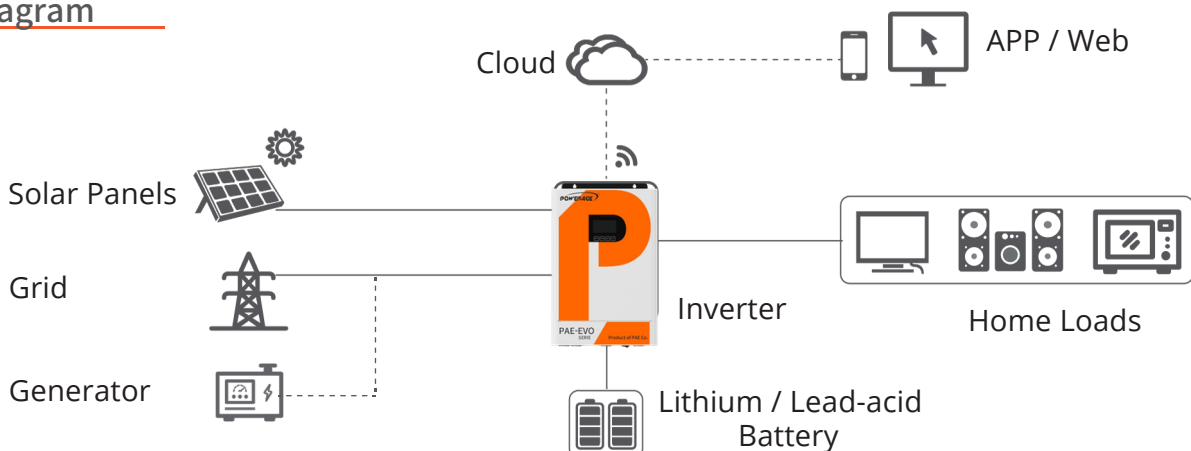


Detachable DustCover



WiFi Monitoring

### System Diagram



# Specifications

| Model                              | PAE-EVO-4000  |
|------------------------------------|---|
| <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                     | 4000VA / 4000W  |
| Surge Power (kVA)                  | 8   |
| 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)   | 60s@102%~110% load; 10s@110%~130% load;<br>3s@130%~150% load; 0.2s@>150% load |
| Max. Efficiency (Battery Mode)     | 92.7%@24VDC   |
| Parallel Quantity                  | NA  |
| <b>Charger (PV / AC)</b>           |   |
| Solar Charger Type                 | MPPT  |
| Max PV input Current / Input Power | 18A / 5000W   |
| MPPT Range@Operating Voltage (VDC) | 40~450  |
| Max PV Open Circuit Voltage (VDC)  | 500   |
| Max PV Charge Current (A)          | 100   |
| Max AC Charge Current (A)          | 100   |
| Max. Charge Current (PV + AC) (A)  | 100   |
| <b>Battery</b>                     |   |
| Rated Voltage (VDC)                | 24  |
| Floating Charge Voltage (VDC)      | 27  |
| Overcharge Protection (VDC)        | 30.5  |
| Battery Type                       | Lithium and Lead-acid   |
| <b>Interface</b>                   |   |
| HMI                                | LCD   |
| Interface                          | RS485 / RS232 / USB / Dry Contact   |
| Monitoring                         | WiFi (Optional)   |
| <b>General Data</b>                |   |
| Ingress Protection                 | IP20  |
| Operating Temperature              | -10°C~ 50°C   |
| Relative Humidity                  | 5% ~ 95% (Non-condensing)   |
| Storage Temperature                | -15°C~ 60°C   |
| Net Weight (kg)                    | 8   |
| Dimensions (W*H*D)                 | 490*306*115mm (without bracket)   |
| Max. Operating Altitude            | 4000m (Derating above 1000m)  |