

# AEG

## 3-Phase Solar Inverter 12KW

- Parallel operation (up to 6 units)
- IP65 waterproof and dustproof
- Feed-in to the Grid Function
- Built-in Wifi for Mobile Monitoring
- Reserved Communication Port RS485 for BMS



- Battery Equalization (Improves Battery Performance and Lifespan)
- Battery Independency (Works With/Without Batteries)
- Replaceable Fan Design

# AEG



<b>MODEL</b>	<b>AEG-INV12KW3PG</b>
Rated Power	12000W
Max. PV Power	16000W
Parallel Capability	Up to 6 Units
<b>ON-GRID OPERATION</b>	
<b>PV Input (DC)</b>	
Nominal DC Voltage / Max. DC Voltage	720 VDC / 1000 VDC
Start-up Voltage / Initial Feeding Voltage	320 VDC / 350 VDC
MPPT Voltage Range	350~950 VDC
No. of MPPT Trackers	2
No. of Strings per Tracker	2
Max. Input Current	26A/ 26A
<b>Grid Output AC</b>	
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
Output Voltage Range	184~265 VAC (Per Phase)
Nominal Output Current	17.4A (Per Phase)
Power Factor	0.9 lag ~ 0.9 lead
Max. Conversion Efficiency	>96%
<b>OFF-GRID OPERATION</b>	
<b>AC Input</b>	
AC Start-up Voltage / Auto Restart Voltage	120~140 VAC / 180 VAC
Input Voltage	170 ~ 290 VAC (Per Phase)
Max. AC Input Current	40A (Per Phase)
<b>PV Input</b>	
Max. PV Power	16000W
Max. DC Voltage	1000 VDC
MPPT Voltage Range	350~950 VDC
No. of MPPT Trackers	2
No. of Strings per Tracker	2
Max. Input Current	26A/ 26A
<b>Battery Mode Output (AC)</b>	
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
Efficiency (DC to AC)	91%
<b>HYBRID OPERATION</b>	
<b>PV Input DC</b>	
Max. DC Power	16000W
Start-up Voltage / Initial Feeding Voltage	320 VDC / 350 VDC
MPPT Voltage Range	350~950 VDC

No. of MPPT Trackers	2
No. of Strings per Tracker	2
Max. Input Current	26A/ 26A
<b>Grid Output AC</b>	
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
Output Voltage Range	184~265 VAC (Per Phase)
Nominal Output Current	17.4A (Per Phase)
<b>AC Input</b>	
AC Start-up Voltage / Auto Restart Voltage	120~140 VAC / 180 VAC
Input Voltage	170 ~ 290 VAC (Per Phase)
Max. AC Input Current	40A (Per Phase)
<b>Battery Mode Output (AC)</b>	
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
Efficiency (DC to AC)	91%
<b>BATTERY &amp; CHARGER</b>	
Battery Voltage Range	40~62 VDC
Max. Charging Current	250A
Max. AC Charging Current	250A
Max. PV Charging Current	250A
<b>PHYSICAL</b>	
Dimensions (mm)	255 x 660 x 750
Net Weight (kgs)	70
Communication Interface	RS232/ RS485/ WiFi/ CAN
Intelligent Slot	Optional for SNMP and Modbus Cards
<b>OPERATING ENVIRONMENT</b>	
Humidity	0% ~ 100% Relative Humidity (Non-condensing)
Operating Temperature	-25°C to 60°C
Altitude	0 ~ 1000m