



FlinMiniGrid 30kW Solar Inverter

AC Coupling | Wide DC Input Range | 5 Year Warranty



- ✦ IP65 rated - Dust and water proof
- ✦ 150% unbalanced support on load
- ✦ Dual outputs selected as programmable output or generator input
- ✦ Built in WIFI for monitoring via mobile
- ✦ User adjustable charging current upto 80A
- ✦ AC coupling available on inverter output
- ✦ Multiple operations mode: Off grid, Grid-tie and grid-tie with backup
- ✦ Built in communication port for BMS
- ✦ Parallel upto 4 units

IP65 with 5-Year Warranty – Double Guarantee & Dual Safety

With IP65 protection, FlinMG 30kW is completely protected against dust, airborne particles and water jets which makes it suitable for use both in the indoor and harsh outdoor environment. IP65 design also prevents early aging of the power system.

150% Unbalance Load Support – High Flexibility

FlinMG 30kW can support upto 150% load unbalance and maximum load per phase is 15kw. This reduces rewiring costs and hassles.

Built-In AC Coupled Function – Expand Existing On-Grid System to Hybrid

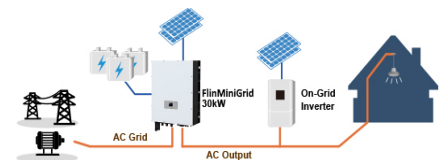
FlinMG 30kW allows you to connect another inverter on its output. It helps in easy upgrade and expansion possibilities at low costs. This feature also allows you to build a micro grid.

Duo Terminal Design Supports Generator Input or Programmable Output

Flin MG 30kW has a second terminal which can be used by consumer as per choice for giving generator input or using it as customized output. It helps in extending battery life. You can custom set when non-critical load can be shut down. Generator input helps in keeping batteries charged in absence of solar and grid.

Wide Battery Voltage Range

With the wide battery voltage range (600V-950V), it makes the solution flexible for use in multiple applications like cold storage facilities, micro grid for villages and other residential and commercial operations. Also compatible with lithium batteries.





Specifications of FlinMG 30kW MPPT Solar Inverter

MODEL		30KW-48V
Maximum PV Input Power		40000W
Rated Output Power		30000W
Maximum Charging Power		30000W
GRID-TIE OPERATION		
PV INPUT (DC)		
Maximum DC Power		40000 W
Nominal DC Voltage		720 VDC
Maximum DC Voltage		1000 VDC
Start-up Voltage / Initial Feeding Voltage		320 VDC / 350 VDC
MPP Voltage Range		350 VDC ~900 VDC
Number of MPP Trackers		3
Maximum Input Current		3 x 26A per MPPT
GRID OUTPUT (AC)		
Nominal Output Voltage		230 VAC (P-N) / 400 VAC (P-P)
Output Voltage Range		184 - 264.5 VAC per phase
Nominal Output Current		43.5 A per phase
Power Factor		> 0.99
EFFICIENCY		
Maximum Conversion Efficiency (DC/AC)		96.5%
European Efficiency @ Vnominal		96%
OFF-GRID OPERATION		
AC INPUT		
AC Start-up Voltage		120 - 140 VAC per phase
Auto Restart Voltage		180 VAC per phase
Acceptable Input Voltage Range		170 - 280 VAC per phase
Maximum AC Input Current		50 A
BATTERY MODE OUTPUT (AC)		
Nominal Output Voltage		230 VAC (P-N) / 400 VAC (P-P)
Output Waveform		Pure Sinewave
Efficiency (DC to AC)		96%
HYBRID OPERATION		
GRID/UTILITY OUTPUT (AC)		
Nominal Output Voltage		230 VAC (P-N) / 400 VAC (P-P)
Output Voltage Range		184 - 265 VAC per phase
Nominal Output Current		43.5 A per phase
Power Factor		> 0.99
AC INPUT		
AC Start-up Voltage/ Auto Restart Voltage		120 - 140 VAC per phase/ 180 VAC per phase
Acceptable Input Voltage Range		170 - 280 VAC per phase
Maximum AC Input Current		50 A
BATTERY MODE OUTPUT (AC)		
Nominal Output Voltage		230 VAC (P-N) / 400 VAC (P-P)
Output Waveform		Pure Sine Wave
Efficiency (DC to AC)		96%
BATTERY & CHARGER		
Battery Voltage Range		600 - 950 VDC
Maximum Charging Current		80 A
GENERAL		
PHYSICAL		
Dimension, D X W X H (mm)		255 x 660 x 750
Net Weight (kgs)		73
INTERFACE		
Communication Port		RS-232, USB, Dry Contact, RS-485 and WiFi
Intelligent Slot		Optional SNMP, Modbus, and GPRS cards available
ENVIRONMENT		
Humidity		0 ~ 100% RH (No condensing)
Operating Temperature		-25°C to 60°C (>45°C De-rating)
Altitude		0 ~ 1000 m**

** Power derating 1% every 100m when altitude is over 1000m
Product specifications are subject to change without further notice