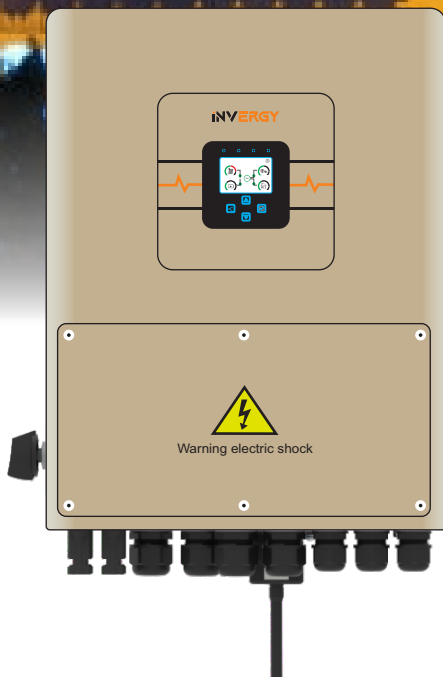


Single Phase Hybrid Inverter

INV EU 3/3.6/5/6/8 - 24V/48V - 1P



Colorful touch LCD,
IP65 protection degree



6 time periods for battery
charging/discharging



Max. charging/discharging
current of 120A



Frequency droop control,
Max. 16 pcs parallel



DC couple and AC couple to
retrofit existing solar system



Support storing energy from
diesel generator

Model

INV(EU)-3KW-24V-04 INV(EU)-3KW-48V-04 INV(EU)-3.6KW-48V-04 INV(EU)-5KW-48V-04 INV(EU)-6KW-48V-04

| Battery Input Data | | | | |
|---|--|-------|------|-------|
| Battery Type | Lead-acid or Lithium-ion | | | |
| Battery Voltage Range (V) | 20~30 | 40~60 | | |
| Max. Charging Current (A) | 140 | 70 | 90 | 120 |
| Max. Discharging Current (A) | 140 | 70 | 90 | 120 |
| Charging Curve | 3 Stages / Equalization | | | |
| External Temperature Sensor | Yes | | | |
| Charging Strategy for Li-Ion Battery | Self-adaption to BMS | | | |
| PV String Input Data | | | | |
| Max. DC Input Power (W) | 3900 | 4680 | 6500 | 7800 |
| Rated PV Input Voltage (V) | 370 (125~500) | | | |
| Start-up Voltage (V) | 125 | | | |
| MPPT Range (V) | 150-425 | | | |
| Full Load DC Voltage Range (V) | 300-425 | | | |
| PV Input Current (A) | 13 | | | 13+13 |
| Max. PV ISC (A) | 17 | | | 17+17 |
| Number of MPPT / Strings per MPPT | 1/1 | | | 2/1+1 |
| AC Output Data | | | | |
| Rated AC Output and UPS Power (W) | 3000 | 3600 | 5000 | 6000 |
| Max. AC Output Power (W) | 3300 | 3960 | 5500 | 6600 |
| Peak Power (off grid) | 2 times of rated power, 10 S | | | |
| AC Output Rated Current (A) | 13.6 | 16.4 | 22.7 | 27.3 |
| Max. AC Current (A) | 15 | 18 | 25 | 30 |
| Max. Continuous AC Passthrough (A) | 35 | | | 40 |
| Power Factor | 0.8 leading to 0.8 lagging | | | |
| Output Frequency and Voltage | 50/60Hz; 220/230Vac (single phase) | | | |
| Grid Type | Single Phase | | | |
| Current Harmonic Distortion | THD<3% (Linear load<1.5%) | | | |
| Efficiency | | | | |
| Max. Efficiency | 97.60% | | | |
| Euro Efficiency | 96.50% | | | |
| MPPT Efficiency | 99.90% | | | |
| Protection | | | | |
| PV Input Lightning Protection | Integrated | | | |
| Anti-islanding Protection | Integrated | | | |
| PV String Input Reverse Polarity Protection | Integrated | | | |
| Insulation Resistor Detection | Integrated | | | |
| Residual Current Monitoring Unit | Integrated | | | |
| Output Over Current Protection | Integrated | | | |
| Output Shorted Protection | Integrated | | | |
| Output Over Voltage Protection | Integrated | | | |
| Surge protection | DC Type II / AC Type II | | | |
| Certifications and Standards | | | | |
| Grid Connection Standard | EN50549-1, VDE0126, IEC61727, VDEN4105, G99, CEI0-21, NRS097, NBR16149/16150, RD1699 | | | |
| Safety EMC / Standard | IEC62109-1/-2 | | | |
| General Data | | | | |
| Operating Temperature Range (°C) | -25~60°C, >45°C Derating | | | |
| Cooling | Natural cooling | | | |
| Noise (dB) | <30 dB | | | |
| Communication with BMS | RS485; CAN | | | |
| Weight (kg) | 14 | | | |
| Size (mm) | 365.5Wx470.5Hx261D | | | |
| Protection Degree | IP65 | | | |
| Installation Style | Wall-mounted | | | |
| Warranty | 5 years | | | |