

# 6-12kW

## Eco Hybrid Inverter

IVAM Series is an off-grid model without grid-tied certification or AC coupling

### Features



Remote Monitoring  
via Fsolar APP



5-year Warranty



Adjustable Charging Current  
for Different Applications



Clear Setup Wizard  
for Quick Installation



IP65-rated Protection



Generator / Smart Load /  
Grid Compatible



IVAM6048~8048P1G1

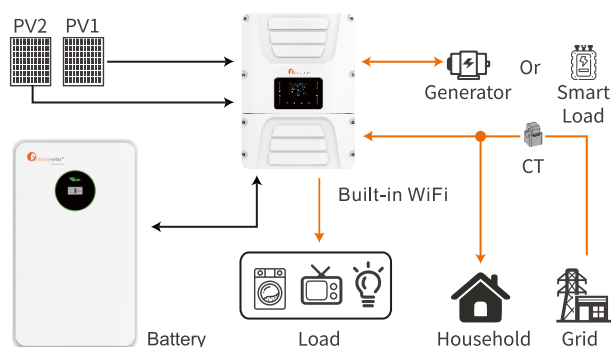
IVAM12048P1G1

### System Configuration

■ DC

■ AC

--- Communication



| Model                                             | IVAM6048P1G1                                           |                   | IVAM8048P1G1 |               | IVAM12048P1G1 |  |
|---------------------------------------------------|--------------------------------------------------------|-------------------|--------------|---------------|---------------|--|
| Battery Input Data                                |                                                        |                   |              |               |               |  |
| Battery Type                                      | Lead-acid or Lithium-ion                               |                   |              |               |               |  |
| Battery Voltage Range(V)                          | 40~60                                                  |                   |              |               |               |  |
| Max. Charging Current/Max. Discharging Current(A) | 135                                                    | 190               |              | 250           |               |  |
| Charging Strategy for Li-Ion Battery              | Self-adaption to BMS                                   |                   |              |               |               |  |
| Number of Battery Input                           | 1                                                      |                   | 2            |               |               |  |
| PV String Input Data                              |                                                        |                   |              |               |               |  |
| Max. PV Access Power(W)                           | 12000                                                  | 16000             |              | 24000         |               |  |
| Max. PV Input Power(W)                            | 9600                                                   | 12800             |              | 19200         |               |  |
| Max. PV Input Voltage(V)                          | 500                                                    |                   |              |               |               |  |
| Start-up Voltage(V)                               | 90                                                     |                   |              |               |               |  |
| PV Input Voltage Range(V)                         | 90~500                                                 |                   |              |               |               |  |
| MPPT Voltage Range(V)                             | 90~425                                                 |                   |              |               |               |  |
| Full Load MPPT Voltage Range(V)                   | 300~425                                                | 200~425           |              | 200~425       |               |  |
| Rated PV Input Voltage(V)                         | 370                                                    | 370               |              | 370           |               |  |
| Max. Operating PV Input Current(A)                | 20+20                                                  | 27+27             |              | 32+32         |               |  |
| Max. Input Short-Circuit Current(A)               | 27+27                                                  | 40+40             |              | 48+48         |               |  |
| No. of MPP Trackers/No. of Strings MPP Tracker    | 2/1+1                                                  | 2/2+2             |              | 2/2+2         |               |  |
| AC Output Data                                    |                                                        |                   |              |               |               |  |
| Rated AC Output Power(VA/W)                       | 6000                                                   | 8000              |              | 12000         |               |  |
| Max. AC Output Power(VA/W)                        | 6000                                                   | 8000              |              | 12000         |               |  |
| Max. AC Output Current(A)                         | 26.1                                                   | 34.8              |              | 52.2          |               |  |
| Peak Power(W)                                     | 2 Times of Rated Power, 10s                            |                   |              |               |               |  |
| Rated Output Voltage(V)                           | 230                                                    |                   |              |               |               |  |
| Output Type                                       | L+N+PE                                                 |                   |              |               |               |  |
| Rated Output Frequency                            | 50Hz/60Hz                                              |                   |              |               |               |  |
| Output Voltage Waveform                           | Pure Sine Wave                                         |                   |              |               |               |  |
| AC Input Data(Grid and Generator)                 |                                                        |                   |              |               |               |  |
| Max. Input Power to Battery(W)                    | 6000                                                   | 8000              |              | 12000         |               |  |
| Rated Input Voltage(V)                            | 230                                                    |                   |              |               |               |  |
| Rated Input Frequency                             | 50Hz/60Hz                                              |                   |              |               |               |  |
| Grid Input Frequency Range(Hz)                    | 40~65                                                  |                   |              |               |               |  |
| Transfer Time (Single unit)                       | 10ms (UPS);20ms(APL)                                   |                   |              |               |               |  |
| Grid Input Current(A)                             | 35                                                     | 50                |              | 60            |               |  |
| Generator Input Current(A)                        | 35                                                     | 50                |              | 60            |               |  |
| Equipment Protection                              |                                                        |                   |              |               |               |  |
| AC Output Overvoltage Protection                  | Yes                                                    |                   |              |               |               |  |
| AC Output Short Circuit Protection                | Yes                                                    |                   |              |               |               |  |
| AC Output Overcurrent Protection                  | Yes                                                    |                   |              |               |               |  |
| Thermal Protection                                | Yes                                                    |                   |              |               |               |  |
| DC Component Monitoring                           | Yes                                                    |                   |              |               |               |  |
| Ground Fault Current Monitoring                   | Yes                                                    |                   |              |               |               |  |
| Arc fault circuit interrupter (AFCI)              | Optional                                               |                   |              |               |               |  |
| Power Network Monitoring                          | Yes                                                    |                   |              |               |               |  |
| Earth Fault Detection                             | Yes                                                    |                   |              |               |               |  |
| DC Input Switch                                   | Yes                                                    |                   |              |               |               |  |
| Overvoltage Load Drop Protection                  | Yes                                                    |                   |              |               |               |  |
| Surge Protection Level                            | TYPE II(DC), TYPE II(AC)                               |                   |              |               |               |  |
| General Data                                      |                                                        |                   |              |               |               |  |
| Display                                           | LCD+LED                                                |                   |              |               |               |  |
| Communication Interface                           | RS485, CAN                                             |                   |              |               |               |  |
| Monitor Mode                                      | WIFI/LAN (Optional)                                    |                   |              |               |               |  |
| General Data                                      |                                                        |                   |              |               |               |  |
| Operating Temperature Range                       | -40 to +60°C, >45°C Derating                           |                   |              |               |               |  |
| Ingress Protection (IP) Rating                    | IP65                                                   |                   |              |               |               |  |
| Over Voltage Category                             | OVC II(DC), OVC III(AC)                                |                   |              |               |               |  |
| Warranty                                          | 5 Years                                                |                   |              |               |               |  |
| Type of Cooling                                   | Intelligent Air Cooling                                |                   |              |               |               |  |
| Net Weight                                        | 13.5kg                                                 | 14.5kg            |              | 21.4kg        |               |  |
| Product Dimension                                 | 435x320x183mm                                          | 456.5x362x183.2mm |              | 594x385x203mm |               |  |
| Package Dimension                                 | 532x412x270mm                                          | 552x447x270mm     |              | 752x507x348mm |               |  |
| Safety EMC/Standard                               | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2 |                   |              |               |               |  |

\*Disclaimer: This product is currently in pilot production. Final specifications, design, and features may differ from those presented here.

\*Refer to Felicitysolar's Warranty Policy for applicable conditions.

