E-PRO6KW230V-IP65

EURONET GEN-5 PRO SERIES INVERTER – 6kW

Single-Phase Hybrid Inverter | 48V Battery | IP65



RATED OUTPUT POWER **6000W**	BATTERY VOLTAGE **48V DC**
MAX PV INPUT POWER **4500W + 4500W**	MPPT VOLTAGE RANGE **50V–500V DC**
MAX CHARGING CURRENT **125A**	PARALLEL OPERATION **Up to 6 units**

OVERVIEW

The EURONET E-PRO6KW230V-IP65 is a 6kW single-phase hybrid solar inverter from the Gen-5 PRO Series that unifies solar, grid and battery power in one IP65-rated unit for homes. Two MPPT trackers (50V–500V DC) accept 4500W + 4500W of PV power, a 48V DC battery is charged at up to 125A, and surplus solar can be fed to the grid at up to 97% DC/AC efficiency. Pure sine wave 220/230/240V AC output, two independent AC inputs and outputs, Wi-Fi, touchscreen control, CT support and parallel operation of up to six units add flexibility.

KEY FEATURES

Grid-Tied, Hybrid & Off-Grid
Feeds surplus solar to the grid at up to 97% DC/AC efficiency, or runs hybrid and off-grid on battery

Dual MPPT, 50V–500V DC
Two MPPT trackers (18A each) accept 4500W + 4500W of PV input at up to 520V DC for flexible strings

125A Solar & AC Charging
48V DC battery charged at up to 125A from solar or from AC, with up to 6000W maximum charging power

Parallel Up to Six Units
Connect up to six units in parallel to scale solar and backup capacity as household demand grows

Two Independent AC Inputs
Two independent AC inputs and two AC outputs give flexible load management and power source control

Wi-Fi, Touchscreen & CT Input
Built-in Wi-Fi monitoring and touchscreen control, with CT input for export limitation and load control

TECHNICAL NOTE

E-PRO6KW230V-IP65: 6000W rated output, 48V DC battery, 125A maximum solar / AC charging (6000W). Two MPPT trackers, 50V–500V DC, 18A each, 520V DC maximum, 4500W + 4500W PV input, 90V / 120V DC start-up / initial feeding. Grid-tied output 220/230/240V AC, 26.1A, PF >0.99, 97% maximum efficiency; 93% in battery mode. AC input 40A maximum. Parallel up to 6 units. IP65, -10°C to 50°C.

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E-PRO6KW230V-IP65

PRODUCT TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATIONS
GENERAL	
Model	E-PRO6KW230V-IP65
Series	Gen-5 PRO Series
Type	Single-phase hybrid solar inverter
Phase	1-phase in / 1-phase out
Rated Output Power	6000W
Max PV Input Power	4500W + 4500W
Max Charging Power	6000W
Operating Modes	Grid-tied · off-grid · hybrid
PV INPUT (DC)	
Max DC Voltage	520V DC
Start-up / Initial Feeding	90V DC / 120V DC
MPPT Voltage Range	50V–500V DC
MPPT Trackers	2
Max Input Current	18A per tracker
Solar Charger Type	MPPT
BATTERY & CHARGER	
Nominal DC Voltage	48V DC
Max Solar Charging Current	125A
Max AC Charging Current	125A
Max Charging Current	125A
Max Charging Power	6000W
AC INPUT	
AC Inputs	2 independent
AC Start-up Voltage	170V–280V AC
Acceptable Input Range	90V–280V AC (APL) or 170V–280V AC (UPS)
Frequency Range	50Hz/60Hz (auto-sensing)
Max AC Input Current	40A

PARAMETER	SPECIFICATIONS
GRID OUTPUT (GRID-TIED & HYBRID)	
Nominal Output Voltage	220/230/240V AC
Output Voltage Range	184V–264.5V AC or 195.5V–253V AC (selectable)
Nominal Output Current	26.1A
Power Factor	>0.99
Max Conversion Efficiency	97% (DC/AC)
BATTERY MODE OUTPUT (AC)	
AC Outputs	2 independent
Nominal Output Voltage	220/230/240V AC
Output Waveform	Pure sine wave
Efficiency (DC to AC)	93%
COMMUNICATION & INTERFACE	
Communication Ports	RS485 / CAN / Wi-Fi / dry contact
Monitoring	Built-in Wi-Fi
Display	Touchscreen
Current Transformer	Supported (external CT)
Parallel Function	Yes, up to 6 units
PHYSICAL & ENVIRONMENTAL	
Dimensions (D×W×H)	471 × 444 × 200 mm
Net Weight	18.5 kg
Ingress Protection	IP65
Operating Temperature	-10°C to 50°C
Storage Temperature	-15°C to 60°C
Humidity	5%–95% RH (non-condensing)
Warranty	Not available
CERTIFICATION	
Certifications	CB · CE · IEC compliant

**Specifications are subject to change without prior notice.*

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