E-PRO16KW230V-IP65

EURONET GEN-5 PRO SERIES INVERTER – 16kW

Single-Phase Hybrid Inverter | 48V Battery | IP65



RATED OUTPUT POWER **16000W**	BATTERY VOLTAGE **48V DC**
MAX PV INPUT POWER **21800W**	MPPT VOLTAGE RANGE **50V–450V DC**
MAX CHARGING CURRENT **250A**	PARALLEL OPERATION **Up to 6 units**

OVERVIEW

The EURONET E-PRO16KW230V-IP65 is the largest model in the Gen-5 PRO Series, a 16kW single-phase hybrid solar inverter for large homes and energy storage systems. Three MPPT trackers (50V–450V DC) accept up to 21800W of PV input, a 48V DC battery is charged at up to 250A, and pure sine wave 220/230/240V AC output reaches up to 97% DC/AC efficiency in grid-tied operation. Two independent AC inputs and outputs with 100A pass-through, Wi-Fi, touchscreen control, CT support and parallel operation of up to six units complete an IP65-rated package.

KEY FEATURES

Up to 97% DC/AC Efficiency
97% maximum DC/AC conversion efficiency in grid-tied operation, and 93% efficiency in battery mode

Triple MPPT, 18A + 18A + 36A
Three MPPT trackers across 50V–450V DC accept up to 21800W of PV input, with a 520V DC maximum voltage

250A Solar & AC Charging
48V DC battery charged at up to 250A from solar or from AC, with up to 14000W maximum charging power

Single- or Three-Phase Parallel
Up to six units in parallel on a single-phase supply, or three units to build a three-phase supply

Two Independent AC Inputs
Two independent AC inputs and two AC outputs for flexible load prioritisation and power management

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-PRO16KW230V-IP65: 16000W rated output, 48V DC battery, 250A maximum solar / AC charging (14000W at 56V). Three MPPT trackers (18A + 18A + 36A), 50V–450V DC, 520V DC maximum, 21800W maximum PV input. Grid output 220/230/240V AC, 69.6A, PF >0.99, 97% maximum efficiency; 93% in battery mode. AC input 100A (pass-through). Parallel: 6 units (3 for 3-phase). IP65, -10°C to 50°C.

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E-PRO16KW230V-IP65

PRODUCT TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATIONS
GENERAL	
Model	E-PRO16KW230V-IP65
Series	Gen-5 PRO Series
Type	Single-phase hybrid solar inverter
Phase	1-phase in / 1-phase out
Rated Output Power	16000W
Max PV Input Power	21800W
Max Charging Power	14000W (56V)
Operating Modes	Grid-tied · off-grid · hybrid
PV INPUT (DC)	
Max DC Voltage	520V DC
Start-up Voltage (Grid-tied)	117V DC
Start-up / Initial Feeding (Hybrid)	90V DC / 120V DC
MPPT Voltage Range	50V–450V DC
MPPT Trackers	3
Max Input Current	18A + 18A + 36A
Solar Charger Type	MPPT
BATTERY & CHARGER	
Nominal DC Voltage	48V DC
Max Solar Charging Current	250A
Max AC Charging Current	250A
Max Charging Current	250A
Max Charging Power	14000W (56V)
AC INPUT	
AC Inputs	2 independent
AC Start-up Voltage	170V–280V AC
Acceptable Input Range	90V–280V AC / 170V–280V AC
Frequency Range	50Hz/60Hz (auto-sensing)
Max AC Input Current	100A (pass-through)

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	69.6A
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
Parallel Function	6 units (3 for 3-phase)
PHYSICAL & ENVIRONMENTAL	
Dimensions (D×W×H)	637.5 × 491 × 300.5 mm
Net Weight	50 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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