E-ULT30KW400V-IP66

EURONET GEN-5 ULTRA SERIES INVERTER – 30kW

HV Three-Phase Hybrid Inverter | 98.4% Efficiency | IP66



NOMINAL AC OUTPUT **30,000W**	MAX EFFICIENCY **98.4%**
MAX PV USABLE POWER **45,000W**	BATTERY VOLTAGE RANGE **120V–800V**
MPP TRACKERS **3 · 6 strings**	INGRESS PROTECTION **IP66**

OVERVIEW

The EURONET E-ULT30KW400V-IP66 is a 30kW three-phase hybrid inverter from the Gen-5 ULTRA Series, built for high-voltage battery systems in homes and small-to-medium commercial and industrial sites. It reaches up to 98.4% maximum efficiency, with 110% continuous overload capacity and unbalanced output support. Three independent MPP trackers handle up to 45,000W of usable PV power across six strings, while dual battery ports (120V–800V), advanced parallel operation of up to 10 units and several built-in working modes allow scalable systems. Smart fan cooling, an IP66 enclosure and app-based commissioning suit demanding outdoor sites.

KEY FEATURES

98.4% Maximum Efficiency
98.4% maximum PV-to-AC efficiency, with 110% continuous overload capacity and unbalanced output support

Triple MPPT Design
Three independent MPP trackers (32A each) with two strings per tracker, across a 160V–950V range

Dual HV Battery Ports
120V–800V battery range, 2×75A charge and discharge, up to 45,000W charge and 36,000W discharge power

Parallel Up to 10 Units
Advanced parallel function connects up to 10 units (Scheme B) for scalable, high-power PV systems

IP66 & Smart Cooling
Outdoor-rated IP66 enclosure with smart fan cooling across a wide -25°C to 60°C operating temperature

Smart App Control
Bluetooth and app-based commissioning and remote monitoring, with LED and optional LCD display

TECHNICAL NOTE

E-ULT30KW400V-IP66: 30,000W nominal output, 33,000VA maximum, 98.4% maximum efficiency. 45,000W usable PV, 1,000V maximum input, 150V start-up, 160V–950V, 3 trackers (32A each, 2 strings each). Battery 120V–800V (230V–800V at rated power), 2×75A, 45,000W / 36,000W; 25,500W on a single port. Back-up 36,000VA for 5 min, 45,000VA for 10 s, <10ms transfer. IP66, 55kg. Warranty 5 years (10 years optional).

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E-ULT30KW400V-IP66

PRODUCT TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATIONS
GENERAL	
Model	E-ULT30KW400V-IP66
Series	Gen-5 ULTRA Series
Type	HV three-phase solar hybrid inverter
Max Efficiency (PV to AC)	98.4%
Continuous Overload	110% · unbalanced output supported
Parallel Operation	Up to 10 units (Scheme B)
INPUT (PV)	
Max PV Usable Power	45,000W
Max PV Input Voltage	1,000V
Start-up Voltage	150V
MPPT Operating Voltage Range	160V–950V
Max Input Current Per MPPT	32A / 32A / 32A
Max Short-circuit Current Per MPPT	40A / 40A / 40A
No. of MPP Trackers	3
Strings Per MPP Tracker	2/2/2
PV Connection	MC4 / H4
INPUT / OUTPUT (BATTERY)	
Battery Type	Lithium-ion / lead-acid
Battery Voltage Range	120V–800V
Voltage Range at Rated Power	230V–800V
Max Charge / Discharge Current	2×75A / 2×75A
Max Charge / Discharge Power	45,000W / 36,000W
Single Battery Port	25,500W max (dual port: 45,000W)
PROTECTION	
Protection Category	Class I
PV Switch	Yes
Anti-islanding Protection	Yes
AC Overcurrent Protection	Yes
AC Short-circuit Protection	Yes
DC Reverse Protection	Yes
DC/AC Overvoltage Protection	DC Type II, AC Type III
Surge Arrester	DC Type II, AC Type II
Insulation Resistance Detection	Yes
Leakage Current Protection	Yes
AFCI 2.0 / RSD	Optional

PARAMETER	SPECIFICATIONS
OUTPUT (GRID)	
Nominal AC Output Power	30,000W
Max AC Output Apparent Power	33,000VA
Max AC Output Power (PF=1)	33,000W
Max AC Output Current	3×50A
Max Single-phase Power	11,000VA
Max Input Power / Current	45,000VA · 3×68.2A
Nominal Voltage	380V/400V/415V, 3W+N+PE
Grid Voltage Range	277V–520V (adjustable)
Nominal Grid Frequency	50Hz/60Hz
AC Frequency Range	45Hz–55Hz / 55Hz–65Hz (adjustable)
Power Factor	>0.99 @rated power (adjustable 0.8 LD–0.8 LG)
THDi	<3% @rated power
OUTPUT (BACK-UP)	
Nominal Output Power	30,000W
Nominal Output Current	3×45.5A
Peak Output Apparent Power (5 Min)	36,000VA
Peak Output Apparent Power (10 S)	45,000VA
Nominal Output Voltage	380V/400V/415V, 3W+N+PE
Nominal Output Frequency	50Hz/60Hz
Transfer Time	<10ms (typical)
THDv	<3% @100% R load
GENERAL DATA	
Dimensions (W×H×D)	660 × 596 × 235 mm
Weight	55kg
Ingress Protection	IP66
Operating Temperature	-25°C to 60°C (>45°C derating)
Max Operation Altitude	4,000m (>2,000m derating)
Relative Humidity	0–100%
Cooling	Smart cooling
Mounting	Wall bracket
HMI & COMMUNICATION	
Display	Bluetooth & app + LED, LCD (optional)
Interfaces	RS485/CAN (BMS), RS485, DRM/RS485 (meter)
Optional	Wi-Fi/LAN, 3×DO, 2×DI
CERTIFICATION & WARRANTY	
Safety	IEC 62109-1 & 2
EMC	IEC/EN 61000
Grid Code	VDE 4105, EN 50549-1, CEI 0-21, NRS 097-2-1, RD 1699/661/647/413, UNE 217002, AS 4777.2, C10/11, IEC 61727/62116
Warranty	5 years (10 years optional)

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

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