

EURONET GEN 5 ULTRA SERIES SOLAR HYBRID INVERTER – 30KW (HV Three-Phase)

30KW Nominal Output | 98.4% Max Efficiency | IP66 Rated

The EURONET GEN 5 Ultra Series 30KW Solar Hybrid Inverter is a three-phase, high-voltage battery inverter built for residential and small-to-medium commercial & industrial use. It delivers up to 98.4% maximum efficiency with continuous overload capacity of 110% and unbalanced output support. Three independent MPPTs handle high-power solar arrays, while advanced parallel operation, dual battery ports, and multiple built-in working modes allow flexible, scalable system configurations. Smart fan cooling and an IP66-rated enclosure support installation in demanding outdoor environments, with mobile app-based commissioning and remote monitoring.



6 KEY HIGHLIGHTS



High Efficiency

98.4% max. efficiency, 110% overload capacity



Dual Battery Ports

120V–800V range, 2*75A/2*75A charge/discharge current



Triple MPPT Design

3 independent MPPTs, up to 6 strings for high-power PV arrays



Parallel Operation

Advanced parallel function, up to 10 units (Scheme B)



IP66 & Smart Cooling

Outdoor rated, -25°C to 60°C operating range



Smart App Control

Bluetooth & APP monitoring, optional LCD display

EFFICIENCY

Max. Efficiency (PV to AC)	98.4%
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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
No. of Strings per MPP Tracker	2/2/2

INPUT/OUTPUT (BAT)

Battery Type	Lithium-ion/Lead-acid
Battery Voltage Range at Rated Power	230V–800V
Battery Voltage Range	120V–800V
Max. Charge/Discharge Current	2*75A/2*75A
Max. Charge/Discharge Power	45,000W/36,000W

① Single port: 25,500W max; dual port: 45,000W

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	45,000VA
Max. Input Current	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
Power Factor	>0.99@Rated Power
THDI	<3%@Rated Power

Adjustable 0.8 LD – 0.8 LG

OUTPUT (BACK UP)

Nominal Output Power	30,000W
Nominal Output Current	3*45.5A
Peak Output Apparent Power (5min)	36,000VA
Peak Output Apparent Power (10s)	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

PROTECTION

Protection Category	Class I
PV Switch	Yes
Anti-islanding Protection	Yes
AC Overcurrent Protection	Yes
DC/AC Overvoltage Protection	DC Type II, AC Type III
AC Short Circuit Protection	Yes
DC Reverse Protection	Yes
Surge Arrester	DC Type II, AC Type II
Insulation Resistance Detection	Yes
Leakage Current Protection	Yes
AFCI 2.0/RSD	Optional

GENERAL

Max. Operation Altitude	4,000m	>2,000m derating
Ingress Protection Degree	IP66	
Operating Temperature Range	-25°C~60°C	>45°C derating
Relative Humidity	0~100%	
Cooling Method	Smart Cooling	
Mounting	Wall Bracket	
Dimensions (W*H*D)	660mm*596mm*235mm	
Weight	55kg	
PV Connection Way	MC4/H4	

HMI & COM

Display	Bluetooth & APP+LED, LCD (Optional)	
Communication Interface	RS485/CAN (for BMS), RS485, DRM/RS485 (for Meter)	Optional: Wi-Fi/LAN, 3*DO, 2*DI

CERTIFICATION

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)