



zeroCO₂[®] extra large

60 kW

Power Conversion System

Features:

- With the “smart” fan regulation function, energy consumption and noise are reduced;
- Resilient construction, resistant to high temperatures, humidity, saline environments and other harsh conditions;
- Adopts particular solutions to reduce the ripple current of the capacitor and increase the life of the module;
- Modular design (expandable up to 10) and easy to use;
- Operating temperature range: full load operation from -30°C to +45°C;
- The power factor on the AC side is ± 1 , improving the load capacity;
- It can work in on-grid mode and off-grid mode with an external accessory;
- It can have different types of batteries connected at the same time;
- The change time between charge and discharge is 10 ms.

Models:

zeroCO₂extra large P-60K-A

Dimensions:

Width: 430 mm
Height: 130 mm
Depth: 500 mm
Weight: 28 kg



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Model	P 60K A
AC PARAMETER	
Maximum power [kW]	60
Max. apparent power [kVA]	60
Input type	Three-phase five-conductor system
Voltage range [Vac]	400Vac ±15%
Current range [A]	±90
Rated voltage and frequency [V-Hz]	380/400V - 50/60Hz
Power factor adjustment range	>0.99 0.8 leading ...0.8 lagging
Componente DC corrente [%]	≤ 0.5%
Harmonic content THDi [%]	≤ 3%
AC and DC start function	Yes
Positive direction switching time [ms]	≤ 10ms
Conversion efficiency [%]	≥98,5%
Standby loss [W]	<25
DC PARAMETER	
Voltage range [Vdc]	680-1000
Current range [A]	±100A
Voltage error	±1%
Steady voltage accuracy	±1%
Current error	±1%
Steady current accuracy	±1%
Voltage limiting characteristic	Yes
Current limiting characteristic	Yes
EQUIPMENT USE ENVIRONMENT	
Range of working temperature [°C]	-30 ~ +60 (>45°C derating)
Operating humidity range [%RH]	<+95% Relative humidity, non condensing
Storage temperature [°C]	-40 ~ +70
Storage humidity [%RH]	0 ~ +95% Relative humidity, non condensing
Cooling method	Forced air
Altitude [m]	3000
Protection level	IP20
Noise emission	<70dB
Dimension [WxDxH] [mm]	430x500x130
Weight [kg]	28
COMMUNICATION FUNCTION	
Communication method	CAN, RS485, Ethernet, dry contact
Reporting signal	Various protection signals, voltage and current signals
Receive signal	Power on and off signal
SECURITY GRADE	
Safety specification	reference 18487.1
Withstand voltage: input & output - PE	3535Vdc
Withstand voltage: input & output - CAN	2828Vdc
Surge: Input & Output - PE [kV]	6
EMC characteristics	riferimento 33008.1
Radiation	CLASS A
ESD	3
EFT	3
Radio frequency immunity	3
MTBF [hrs]	100000
Certification	CEI 0-21, CEI 0-16, VDE ARN 4105
Standard warranty	2 years

