



zeroCO₂[®]
island

5 kW

Off-grid Hybrid Inverter

Features:

- Off-grid inverter with MPPT from 120 to 430 Vdc;
- Connectable to lead and lithium batteries;
- Integrates the BMS communication for low voltage Pylontech batteries;
- Operation priority from PV or grid or current generator, configurable;
- Can work without batteries, powered by grid and / or PV and / or current generator;
- Auto restart function when the grid or the PV returns;
- Can be integrated into third party monitoring systems through communication protocol on RS232, RS485, CAN-BUS;
- Integrated Bluetooth monitoring for Android application; remote monitoring with WiFi accessory;
- Parallelizable in single-phase or three-phase up to nine units for a maximum total power of 45 kW;
- Single-phase from 5 to 45 kW;
- Three-phase from 15, 30 and 45 kW;
- 2 year guarantee.

Dimensions:

Height: 468 mm
Width: 295 mm
Depth: 140 mm
Weight: 12 kg

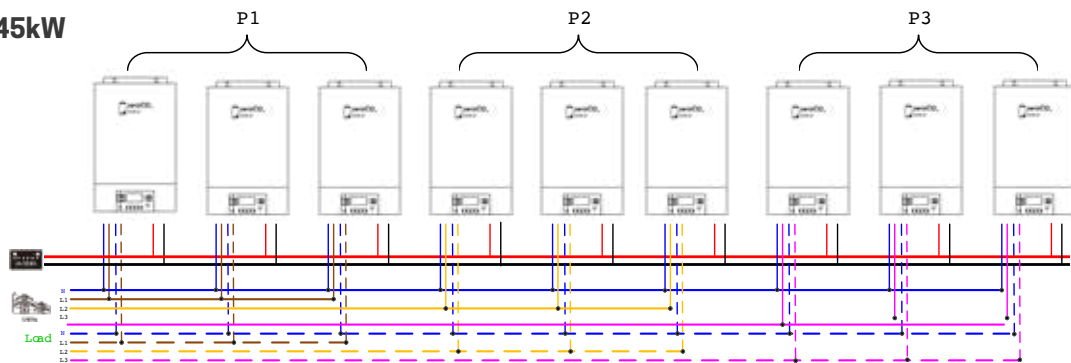


SAVE YOUR PLANET
www.energysynt.com

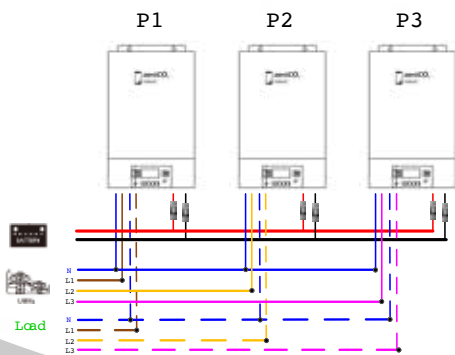
Model	zeroCO ₂ island 5k
Rated Power [VA/W]	5000VA/5000W
INPUT	
Voltage [VAC]	230
Selectable Voltage Range [V]	170-280 CA (for personal computer) 90-280 CA. (For home appliances)
Frequency Range [Hz]	50 / 60 (Auto sensing)
OUTPUT	
AC Voltage Regulation [Batt. Mode] [VAC]	230VAC ± 5%
Overload capacity	5s@≥150% load; 10s@110%~150% load; 100ms @ ≥200% load
Efficiency [Peak]	93%
Transfer Time [ms]	"15 ms (For personal computer) 20 ms (For home appliances) "
Waveform	Pure sine wave
BATTERY	
Battery Voltage [V]	45-54V
Floating Charge Voltage [V]	54 V
Overcharge Protection [W]	5000W
SOLAR CHARGER & AC CHARGER	
MPPT	1
Maximum PV Array Power [W]	4500
MPPT Range @ Operating Voltage [VDC]	120 ~ 430
Maximum PV Array Open Circuit Voltage [VDC]	450
Max current from PV [A]	18A
Maximum Solar Charge Current [A]	80A
Maximum AC Charge Current [A]	80A
GENERAL DATA	
Dimension, [DxWxH] [mm]	140x295x468
Net weight [kg]	12
Communication Interface	USB, RS232, RS485, Bluetooth
OPERATING ENVIRONMENT	
Humidity	5% al 95% Relative Humidity(Non-condensing)
Operating Temperature [°C]	-10 ~ + 50
Storage Temperature [°C]	-15 ~ +60
Warranty	2 years

Configuration Examples:

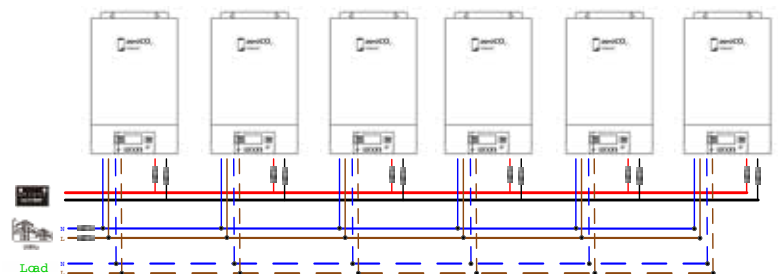
Three-Phase 45kW



Three-Phase 15kW



Single-Phase 30kW



Energy Srl

Registered office:
Piazza Manifattura, 1
38068, Rovereto TN
Tel. +39 0464 350812 - Fax +39 0464 350512



www.energysynt.com
www.bandoaccumulo.com

Energy Srl

Operations/Warehouse:
Via Seconda Strada, 26
30030, Z.I. Loc. Galta di Vigonovo (VE)
info@energysynt.com
Tel. +39 049 2701296 - Fax +39 049 8599098