

Features

- Size: 93.75" H x 16" W x 9" D
- Off-grid or grid-tied renewable energy source
- Complete system, intergrated for residential and small commercial installations
- Various ways to power AC loads:
 - 48V Battery
 - 120V/240V Grid
 - 120V/240V Renewable Energy
 - 120V/240V Generator
- Output power of 4.4kW (kilowatts)
- Cloud-based interface with MeasurzTM
- Option 1: Chemistry: AGM; nominal capacity: 4.3 kWh (kilowatt hours)
- Option 2: Chemistry: LiFePO4 (Lithium Iron Phosphate) Capacity: 8.8 kWh

Summary

Energizr 100 seamlessly brings together different sources of energy to power loads and manage a battery system. Energizr 100 creates a local microgrid so that grid-tied renewable energy inverters continue to generate electricity even during a black-out. In situations where the grid is available, the renewable resources are used to charge the system batteries, and then the excess renewable energy is used for net metering. When

the grid is unavailable or if the load's demand surpasses a pre-specified level, Energizr 100 uses the energy stored in the batteries to power local electrical loads and, at the same time, ensure that the PV or wind power generated is used to recharge the batteries. If the grid is unavailable and the batteries are fully charged, the renewables are controlled to prevent the batteries from overcharging.



Grid & Generator Input (AC) / Loads Output On-Grid (AC)

Continuous AC Output Power (25° C)	7200 VA
Input Voltage Range	120/240V Split-phase (60V-140V per leg)
Input Frequency Range	50 Hz to 70 Hz
Surge Amps (overcurrent / fault limit)	L-L: 70 AAC (1 mSec), 40 AAC (100 mSec)
Maximum Continuous Current	30 AAC
Maximum Overcurrent Protection	30 AAC

Loads Output Off-Grid (AC)

Continuous AC Output Power (25° C)	4400 VA
Voltage Range	120/240V (+/- 5%) Split-phase
Frequency Range	60 Hz (+/- 0.1 Hz)
Surge Amps (overcurrent / fault limit)	L-L: 70 AAC (1 mSec), 40 AAC (100 mSec)
Surge Power	8500 Real Watts (5 Seconds)
AC Voltage Distortion at Rated Power	Less than 5% THD

Renewables Input On-Grid and Off-Grid (AC)

Continuous AC Output Power (25° C)	7200 VA
Input Voltage Range	120/240V Split-phase (60V-140V per leg)
Input Frequency Range	50 Hz to 70 Hz
Surge Amps (overcurrent / fault limit)	L-L: 70 AAC (1 mSec), 40 AAC (100 mSec)
Maximum Continuous Current	30 AAC
Maximum Overcurrent Protection	30 AAC

Battery Port

Input Voltage Range	36V - 67.6V (48V Nominal)
Maximum Continuous Current	100 ADC (Analog-to-Digital Converter)
Surge Amps (overcurrent / fault limit)	140 ADC (1 mSec)
Maximum Torque for Battery Terminal	30ft.- lbs. (40.6 Nm)
Temperature Compensation (External)	0° C - 50° C
Battery Chemistry Compatibility	LiFePO4, AGM, FLA, and Gel
Option 1: Chemistry AGM	Nominal Capacity: 4.3 kWh
Option 2: Chemistry LiFePO4	Nominal Capacity: 8.8 kWh

Mechanical Data and Certification

Dimensions	93.75" H x 16" W x 9" D
Weight of System	419 lbs
Certifications (UL)	Certified to UL 1741, 2nd Edition
Certifications (CSA)	Certified to CSA STD c22.2 No. 107.1-01