

SUNFUSION

# Guardian

The Power of Life, The Power to Save

The Guardian system is comprised of Lithium Iron Phosphate with Graphite and Sodium mix this is 813Ah at 51.2V totaling 41.4kWh of energy storage, with the leading 15kW Inverter/Charger. Grid-Tied / Off-Grid / Solar Charge Controller with up to 17kW of Solar / Generator Control and Usage AC-Coupled up to 15kW / NEMA 3R Rated / Lockable / Case Heat Rated at 1125°F / \*Battery Case is Rated at 1125°F / Rapid Shutdown Compliant / UES Certified Low amperage 120/208/240 125A / Multi-Unit Capable.

## PERFORMANCE SPECIFICATIONS

AC Voltage (Nominal)	120/208/240 V
Feed-In Type	Split Phase
Grid Frequency	60 Hz or 50Hz
Total Energy	42 kWh
Usable Energy	41.4 kWh
Real Power, max continuous	15kW (charge and discharge)
Real Power, peak	15kW (charge and discharge)
Apparent Power, max continuous	15kVA (charge and discharge)
Apparent Power, peak	30kVA (charge and discharge)
Maximum Supply Fault Current	10 kA
Maximum Output Fault Current	125A
Overcurrent Protection Device	125 A
Imbalance for Split-Phase Loads	100%
Power Factor Output Range	+/- 1.0 adjustable
Power Factor Range (full-rated power)	+/- 0.85
Internal Battery DC Voltage	51.2 V
Round Trip Efficiency	97.5%
Warranty	25 years

<sup>1</sup> Values provided for 25°C (77°F), 3.3 kW charge/discharge power.

<sup>2</sup> In Backup mode, grid charge power is limited to 3.3 kW.

<sup>3</sup> AC to battery to AC, at beginning of life.

## COMPLIANCE

Certifications	UL 1973, UL 9540A
Grid Connection	Worldwide Compatibility
Seismic	AC156, IEEE 693-2005 (high)



## SYSTEM DIMENSIONS

Dimensions	2032 mm x 642.62 mm x 457.2 mm (80 in x 25.3 in x 18 in)
Weight	2194 kg (995 lbs)
Mounting Options	Floor Mount Only, floor support

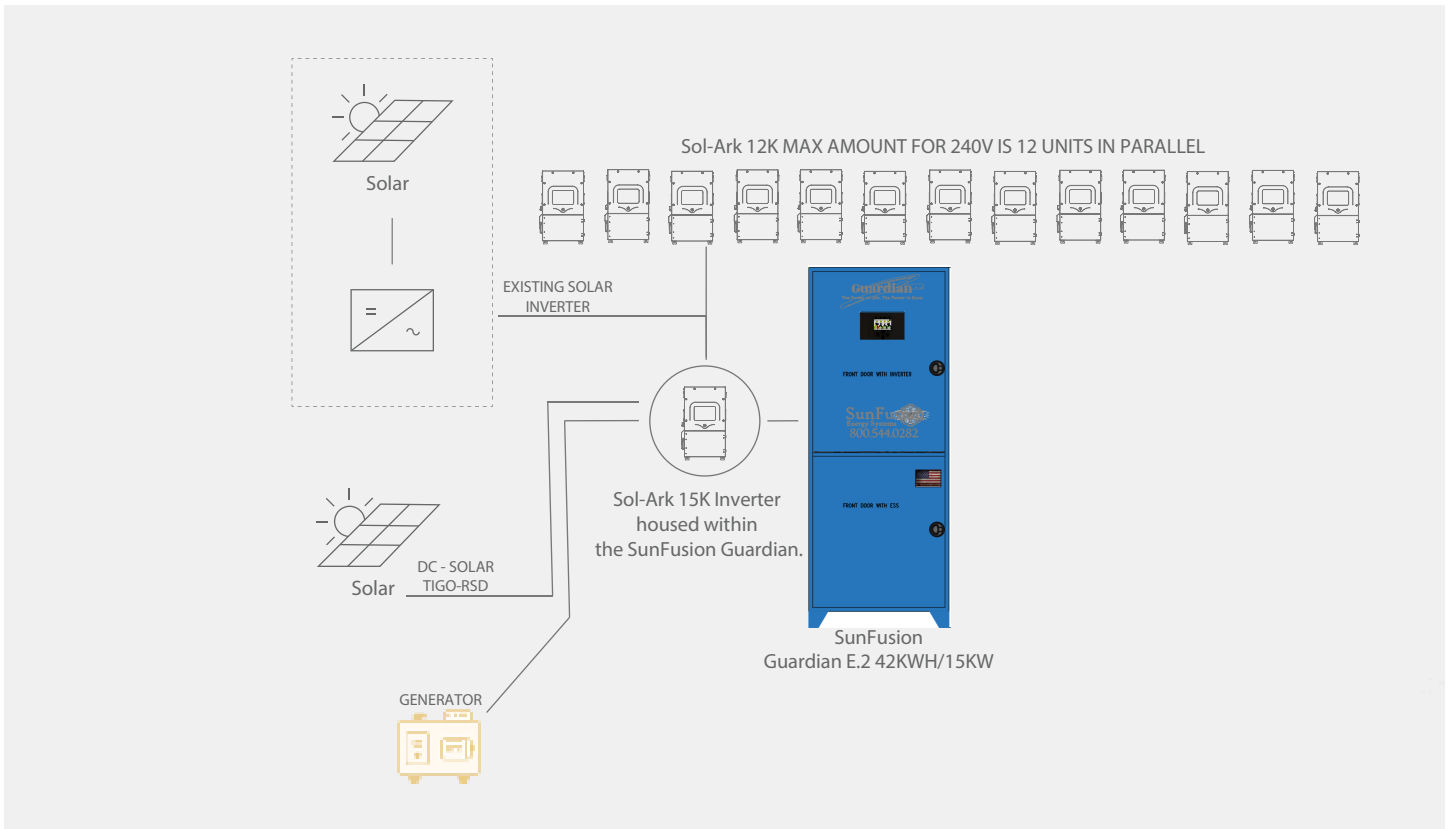


## ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-20°C to 50°C (-4°F to 122°F)
Recommended Temperature	0°C to 30°C (32°F to 86°F)
Operating Humidity (RH)	Up to 100%, condensing
Storage Conditions	-20°C to 30°C (-4°F to 86°F) Up to 95% RH, non-condensing State of Energy (SoE): 25% initial
Maximum Elevation	3000 m (9843 ft)
Environment	Indoor and outdoor rated
Enclosure Type	NEMA 3R
Ingress Rating	IP67 (Battery & Power Electronics) IP56 (Wiring Compartment)
Wet Location Rating	Yes
Noise Level @ 1m	< 40 dBA at 30°C (86°F)

# TYPICAL SYSTEM LAYOUTS

## SOL-ARK OPTIONS



## DC COUPLED

