

# Take charge of your energy future.

Eguana's energy storage systems are designed for utilities and optimized for ease of installation.

Modular, scalable, and retrofit enabled, Eguana's energy storage systems are a perfect fit for virtually every home.



## Industry leading lithium-ion batteries

Lithium iron phosphate battery modules offer safe, high performance deep-discharge use in daily cycle applications, backed by a 10 year warranty and a performance guarantee. The rackmount format on all battery modules are thoughtfully designed with quick and easy on-site installation in mind.

## Features

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Outdoor rated.

Cascade-able to provide up to 15kW in power

Flexible capacity in 5kWh increments

Automated backup power with solar charging, black-start, and emergency reserve controls.

SGIP approved in California.

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## Flexible, adaptable, stand-alone storage

Highly versatile, the Evolve LFP delivers value in both stand-alone and PV-integrated use cases. The modular wall-mount format for both indoor and outdoor applications maximizes installation flexibility without consuming valuable space.



Model  
**EVOLVE LFP**

## PCS: AC RATINGS

Rated power <sup>-4</sup>	[kVA]	5.0
Rated voltage	[V]	240/120 split-phase
Rated frequency	[Hz]	60
Rated current	[A]	20.8
Maximum overcurrent protection <sup>-1</sup>	[A]	60.0
Power factor range		0.8 lead to 0.8 lag
DC ground fault monitoring		Included

## BATTERY MODULE RATINGS

Manufacturer/Model/Chemistry		Acetech/RESS-BM-051100-RL1/LiFePO <sub>4</sub>
Voltage range	[Vdc]	44.5 to 53.5
Maximum charge & discharge current (recommended)	[Adc]	100.0 (100.0)
DC capacity / (usable)	[kWh]	5.0 / (5.0)
Cycle life		>6000 @ 25°C

## PCS: BACKUP POWER RATINGS

Rated output power <sup>-4</sup>	[kVA]	5.0
Surge rating (3+ battery modules required)	[%]	120 (30 min), 170 (5 sec)
Transfer power interrupt time: to backup / to grid	[s]	4.0 / 0.0

## GENERAL RATINGS

Mounting method		Wall-mount
Ambient operating temperature range (recommended)	[°C]	0 to 50 (15 to 30)
Relative air humidity, maximum	[%]	95 (non-condensing)
ESS roundtrip efficiency <sup>-3</sup>	[%]	> 85.7
PCS (inverter) CEC weighted efficiency	[%]	94.5
Protection degree		Type 3R (NEMA), Indoor / Outdoor
Galvanic Isolation		Transformer
Cooling - PCS / Battery		Fan (thermostat) / convection
Energy consumption, standby (operating)	[W]	8 (30)
Display / EMS communication		LED: battery SOC level, system status / Modbus TCP / RS-485

## CERTIFICATIONS & WARRANTY

EMC	FCC Part 15 Class B
Safety	UL 9540, UL 9540A, UL 1741SA, UL 1741SB, UL 1973 CSA 22.2 No 107.1, IEEE 1547
Utility interface	CSIP Rule 21, HI Rule 14H
Warranty / battery performance guarantee	10 year / 60% capacity, pro-rated

- 1- The installed circuit breaker rating is dependent upon the interconnected Evolve Hub model rating.  
2- The max. specified DC capacity & energy ratings are constrained by the max number of battery modules in a single BMS CANbus network; Acetech limit is eight modules  
3- Combined minimum roundtrip efficiency (RTE) of the base PCS model with four battery modules at <0.5C charge & discharge rating. The RTE increases with each additional battery module.  
4- Cascade-able to provide up to 15kVA in power.  
5- Flexible capacity in 5kWh increments.

[www.eguanatech.com](http://www.eguanatech.com)

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## DC ENERGY STORAGE RATINGS

Maximum battery modules per cabinet		4
DC capacity (usable), per cabinet <sup>-5</sup>	[kWh]	20.0 (20.0)
Total maximum continuous PCS charge / discharge current	[Adc]	100 / 125

