

Take charge of your energy future.

Introducing the Evolve LFP - a versatile, residential powerhouse for homes both large and small. Evolve is fully loaded to deliver your preferred energy savings program when installed in parallel with a solar PV system. Automated backup power capability ensures your essential home loads keep running even when the power goes out.



Industry leading lithium-ion batteries

Pylontech's lithium iron phosphate battery modules offer safe, high performance deep-discharge use in daily cycle applications, and are backed by a 10 year warranty and performance guarantee. The rackmount format 3.5 kWh modules are thoughtfully designed with quick and easy on-site

Features

5 kW power / 14 kWh storage.

Outdoor rated.

Lithium iron phosphate batteries with 10 year warranty with a performance guarantee, and 15 year, 6000+ cycle design life.

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

SGIP approved in California.



Simple, modular installation with new or existing solar PV systems.

The Evolve is easily coupled to new or existing solar installations using your preferred solar inverter brand. The modular wall-mount format for both indoor or outdoor use maximizes installation flexibility without consuming valuable space.



Model
EVOLVE LFP
5 kW / 14 kWh

PCS: AC RATINGS

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

BATTERY MODULE RATINGS

Manufacturer/Model/Chemistry	Pylontech / US3000, US3000C / LiFePO ₄
Voltage range	[Vdc] 44.5 to 53.5
Maximum charge & discharge current (recommended)	[Adc] 74.0 (37.0)
DC capacity / (usable)	[kWh] 3.55 / (3.37)
Cycle life	>6000 @ 25°C

DC ENERGY STORAGE RATINGS

Maximum battery modules per cabinet		4
DC capacity (usable), per cabinet	[kWh]	14.2 (13.5)
Total maximum continuous PCS charge / discharge current	[Adc]	100 / 125

PCS: BACKUP POWER RATINGS

Rated output power	[kVA]	5.0
Surge rating (6+ 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 ⁻³	[%]	> 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; US3000 limit is eight modules, US3000C limit is sixteen modules.

3- Combined minimum roundtrip efficiency (RTE) of the base PCS model with two battery modules at <0.5C charge & discharge rating. The RTE increases with each additional battery module.

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