

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 performance guarantee. The rackmount format 3.5 kWh modules are thoughtfully designed with quick and easy on-site installation in mind.

Features

Base model: 5 kW power / 14 kWh storage.

Expandable storage: from 14 kWh to 28 kWh.

Outdoor rated.

Lithium iron phosphate batteries with 10 year performance guarantee, and 15 year, 6000+ cycle design life at 90% depth of discharge.

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

SGIP approved in California.



EGUANA

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.

When it comes to energy resiliency, one size does not fit all.

Evolve's expandable battery capacity means essential home loads can be powered through multi-day grid outages. Black-start capability ensures the battery can be recharged directly from the solar PV system.



Model
EVOLVE LFP
5 kW / 14 kWh

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

Ordering Information	
Model	Parts
● Evolve LFP	ACB05U-LP +  
◊ Evolve LFP-07	ACB05U-LBX + 
◆ Evolve LFP-14	ACB05U-LBX +  
Capacity Selector, kWh	
14 ●	21 ●◊ 28 ●◆

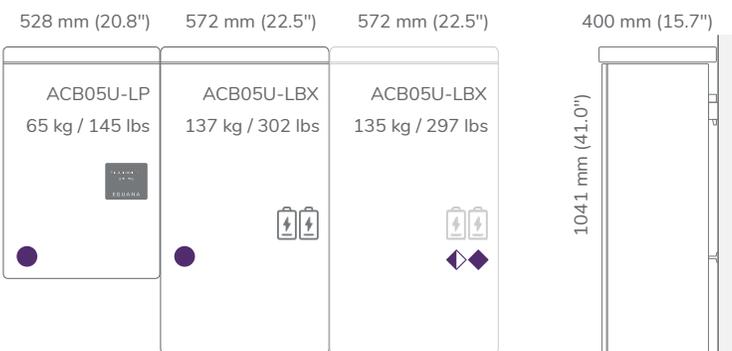
BATTERY RATINGS - MODULE DATA		* System capacity is flexible from two to eight modules. See ordering information below.
Manufacturer / Model / Chemistry		Pylontech / US3000, US3000C / Lithium iron phosphate
Voltage range	[Vdc]	45.0 to 53.5
Maximum charge & discharge current (recommended)	[Adc]	74.0 (37.0)
DC rated capacity / (AC rated usable capacity)	[kWh]	3.55 / (3.2)
Cycle life		>6000 @ 25°C

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)
Roundtrip efficiency ⁻²	[%]	> 86.8
Protection degree		Type 3R (NEMA), Indoor / Outdoor
Galvanic Isolation		Transformer
Cooling - PCS / Battery		Fan (thermostat) / convection
Energy consumption, standby (operating)	[W]	8 (30)
Display		LED: battery SOC level, system status
EMS communication		Modbus RS-485

CERTIFICATIONS & WARRANTY	
EMC	FCC Part 15 Class B
Safety	UL 9540, UL 1741, 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- Combined minimum roundtrip efficiency (RTE) of the base PCS model with two battery modules. The RTE increases with each additional battery module.



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