

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 installation in mind.

Features

Base model: 5 kW power / 14 kWh storage.

Expandable storage: from 14 kWh to 28 kWh.

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.



EQUANA

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-14kWh/-28kWh/-42kWh

AC RATINGS

Rated output apparent power	[kVA]	5.0
Rated voltage (range)	[V]	230
Rated frequency (range)	[Hz]	50
Number of phases		1
Rated output current	[A]	21.7
Maximum overcurrent protection	[A]	60.0
Power factor, nominal (range)	> 0.99 (0.8 lead/lag to 1.0)	
DC ground fault monitoring	Yes	

Distributed by:

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BATTERY RATINGS - MODULE DATA

* System capacity is from 4 to 12 modules. See ordering information below.

Manufacturer / Model / Chemistry	Pylontech / US3000C / Lithium Iron Phosphate	
Rated voltage (range) / Max input DC voltage	[Vdc]	48 (44.5 to 53.5) / 66
Maximum charge & discharge current (recommended)	[Adc]	74.0 (37.0)
Rated capacity (DC) / Usable capacity (AC)	[kWh]	3.55 / (3.37)
Depth of discharge	[kWh]	95%
Cycle life	[cycles]	>6000 @ 25°C

BACKUP POWER RATINGS

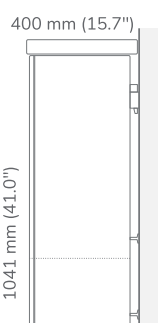
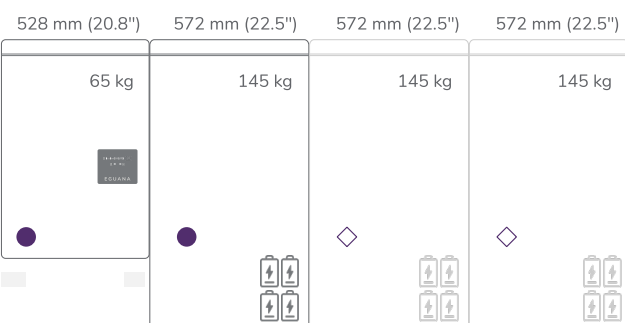
Rated output power	[kVA]	5.0
Surge rating (3+ battery modules required)	[%]	120 (30 min), 170 (5 sec)
Transfer power interrupt time: to backup / to grid	[s]	4.0 / 0.0

GENERAL RATINGS

Mounting method		Wall-mount
Ambient operating temperature range	[°C]	-10 to +45
Recommended temperature range	[°C]	15 to 30
Relative air humidity	[%]	95
Inverter max efficiency / ESS roundtrip efficiency	[%]	96 / > 86.5
Protection degree		IP34
Protective class (I, II, or III)		Class 1
Over-voltage category (OVC I, II, III, or IV)		OVC III
Active anti-islanding method		Sandia frequency shift
Lightning protection		IEEE 62.41.2, location category B, low exposure
Galvanic Isolation		Transformer
Cooling - PCS / Battery		fan (thermostat) / natural convection
Energy consumption, standby (operating)	[W]	6 (30)
Display		LED: battery status, PCS status, service status
EMS communication		Ethernet, LAN
DRED device support		DRM 0, 1, 2, 4, 5, 6, 8

CERTIFICATIONS & WARRANTY

EMC	IEC 61000-6-2, IEC 61000-6-3
Safety	IEC 62109-1/-2, IEC 62477-1, IEC 62040, G59/3-2
Utility interface	AS/NSZ 4777.2: 2020, VDE DIN-AR-4105: 2011-08
Warranty / battery performance guarantee	10 year / 60% capacity, pro-rated



Manufactured in the USA.

Models: Ordering Information

Evolve LFP AU - 14 kWh ●

Evolve LFP AU - 28 kWh ● ◇

Evolve LFP AU - 42 kWh ● ◇ ◇