# 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.





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	60.0				
Power factor range	0.8 lead to 0.8 lag				
DC ground fault monitoring	Included				

BATTERY MODULE RATINGS



DC ENERGY STORAGE RATINGS

Manufacturer/Model/Chemistry Pylontech / US3000, US3000C / LiFePO <sub>4</sub>		4 Maximum battery modules per cabinet		4		
Voltage range	[Vdc]	44.5 to 53.5		DC capacity (usable), per cabinet	[kWh]	14.2 (13.5)
Maximum charge & discharge current (recommende	ed) [Adc]	74.0 (3	7.0)	Total maximum continuous PCS charge / discharge current	[Adc]	100 / 125
DC capacity / (usable)	[kWh]	3.55 / (3.37)				
Cycle life		>6000 @ 25°C				
PCS: BACKUP POWER RATINGS						
Rated output power			[kVA]	5.0		
Surge rating (6+ battery modules req	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 <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				

CERTIFICATIONS	& WARRANTY
EMC	

Energy consumption, standby (operating)

Display / EMS communication

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

8 (30)

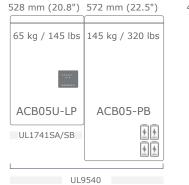
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1- The installed circuit breaker rating is dependent upon the interconnected Evolve Hub model rating.

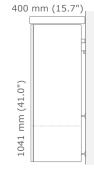
#### www.eguanatech.com

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LED: battery SOC level, system status / Modbus TCP / RS-485



<sup>2-</sup> 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.

<sup>3-</sup> 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.