

Lithium Battery Products

The First Step Towards Green Energy Protection Begins with Energy Storage

▶ About Celxpert Energy Corporation

With an environmental-friendly perspective, Celxpert Energy Corporation services Notebook PCs, consumer electronics, mobile phones and future automotive fuel batteries related industries and emphasizes on design and research development of battery packs.

Celxpert has recently entered the energy storage industry sector and committed to development of various lithium batteries to resolve the challenges of battery replacement, upgrades and relevant maintenance and then applied in electric scooters. Furthermore, Celxpert views 1.2, 2.5, and 2.7 kWh lithium batteries as their main products within the Micro-Grid industry sector, and perceives Taiwan as starting base to provide various lithium battery related energy solutions to the world.

加百裕工業

Celxpert Energy Corporation

Celxpert[®]
Energy Corporation

Tel / +886-3-489-9054
Fax / +886-3-489-7320
Address / No. 128, Gong 5th Rd., Longtan Dist., Taoyuan City 325019
Serena_Huang@celxpert.com.tw



▶ Product Introduction

Celxpert is involved in lithium battery relevant products. The list below showcase Micro-Grid related products:

1.2kWh Li-ion Battery Pack Unit		2.5kWh Li-ion Battery Pack Unit		ENPLUS 2.7kWh LFP Battery Pack Unit	
					
<ul style="list-style-type: none"> Main energy storage for household needs. Supported by both small industrial grid storage and PV systems. 		<ul style="list-style-type: none"> Main energy storage for household with higher storage demand. Applied to emergency power supply with small industrial grid. 		<ul style="list-style-type: none"> Mainly applied for industrial/commercial use. Considerable energy storage needs are achieved by connecting the batteries in parallel circuit. 	
Model	ESS 48V A01	Model	ESS 48V B01	Model	ENPLUS 2.7 AB
Rated Voltage	48V	Rated Voltage	50.4V	Rated Voltage	51.2V (Operate Voltage:55.2V-40V)
Nominal Capacity	26Ah	Nominal Capacity	51Ah	Nominal Capacity	53Ah
Dimensions (mm)	130mm*230.5mm*362mm (W*H*D)	Dimensions (mm)	489.1mm*201.4mm*160.6mm (L*W*H)	Dimensions (mm)	482mm*142mm*424.5mm (W*H*D)
Weight	12.5Kg	Weight	18.530.3Kg	Weight	32Kg
Cont./Max. Discharge Current	26A	Cont./Max. Discharge Current	45A	Cont./Max. Discharge Current	25A(continue) 50A(Max. 15min)
Power Output	1.2kW	Power Output	2.5kW	Power Output	2.7kW
Protection Mechanism	Over-charge Voltage Over-discharge Voltage Over-discharge Current Over-temperature for Discharge	Protection Mechanism	Over-charge Voltage Over-discharge Voltage Over-discharge Current Over-temperature for Discharge	Protection Mechanism	Over-charge Voltage Over-discharge Voltage Over-discharge Current Over-temperature for Discharge
Max. Number of Parallel Circuit	32	Max. Number of Parallel Circuit	32	Lifecycle	70% in 3,000 cycles @25°C
Communication Interface	CAN Bus	Communication Interface	CAN Bus	Communication Interface	CAN Bus or RS485

▶ Product Application

The application of lithium battery is widely used, including energy-saving electricity charging equipment for household use. The lithium battery is sufficient to provide household lighting during nighttime by charging during off-peak hours (daytime). If combined with solar panels, it allows the household to achieve a self-sufficient, energy balanced green housing.

Combined with solar energy, lithium batteries for self-use applications not only could be applied onto households, but also factories, base stations, or even for commercial usage. Celxpert is customizable in various energy source and seeks to supply the world by establishing its roots in Taiwan.



Residence



Factory



Base Station



Hotel

