

# Energy Storage External Charger Modules

E2L™

P330E



For extra long runtime applications, external chargers are required to complement the charging power of Energy Storage Inverters.

External chargers are also used to combine the existing energy storage solution with an alternative AC energy source.

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# Applications

External charger modules are used to complement the charging capacity of E24 Energy Storage Inverters (ESI) or to combine alternative source of power into the energy mix charging the batteries.

For very long runtimes, larger battery banks are required for the same output power. The charging capacity of E24 inverters is sometimes not enough to charge within the required time the installed battery bank.

External chargers modules can be added in either single or 3 phase configurations to complement the charging power of the ESI.

External chargers can be very practical when a limited source of power needs to be added to the energy mix: Having a constant and precise maximum power input, a limited power alternative source can be added without the risk of tripping breakers when the load is increased beyond the power source limits.

# Unmatched Features

## Modular

Energy Storage External Chargers are modular. More chargers can be added with time allowing customers to upgrade at will.

## DSP Technology

Energy Storage External Chargers are built on advance Digital Signal Processing (DSP) technology in order to provide high performance steady and accurate operation over its lifetime while offering outstanding efficiency (up to 96%).

## Intelligent Battery Management

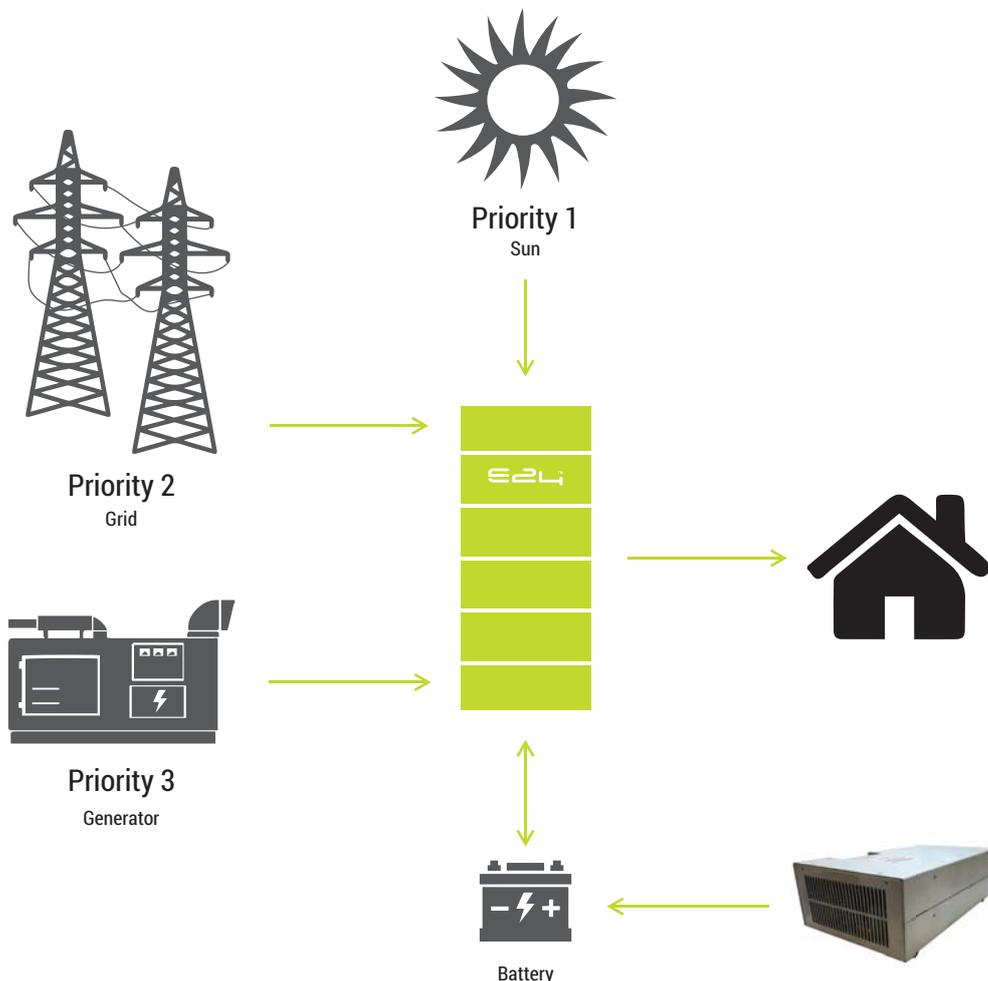
The Energy Storage External Chargers include a float/boost charger and a dynamic cut-off level that reduces battery maintenance and improves battery life.

## Flexible Battery Configuration

The Energy Storage External Chargers can be configured to operate either on a single phase or on three phases (if a minimum of 3 modules are installed).

## Full AC-DC isolation

The Energy Storage External Chargers are galvanically isolated. They can be used either in parallel or in series in variable configurations.



# Technical Specifications

	ESEC1-24-25I	ESEC1-48-20I	ESEC1-72-12I	ESEC1-120-10I	ESEC1-240-5I
<b>AC Input:</b>					
<b>Voltage (Vac):</b>	230 +/- 10%				
<b>Current (A):</b>	3.0	4.8	4.3	6.0	6.0
<b>Frequency (Hz):</b>		50/60	50/60	50/60	50/60
<b>DC Output:</b>					
<b>Adjustable float Voltage (Vdc):</b>	27.6	55.2	82.8	138	276
<b>Maximum Current (Adc)</b>	25	20	12	10	5
<b>Maximum Power (W):</b>	690	960	720	1380	1380
<b>Mechanical Characteristics:</b>					
<b>Weight (Kg)</b>	3.6	3.8	3.9	3.1	3.2
<b>Dimensions HxWxD (mm)</b>	95x260x185	95x260x185	95x260x185	95x280x165	95x260x185
<b>Standards</b>	IEC 60335-1, IEC 60335-2-29				

## Ordering Information

Ref Number	Description
ESEC1-24-25I	Energy Storage External Charger,Modular, 900W, 230Vac, 24Vdc, 25A
ESEC1-48-20I	Energy Storage External Charger,Modular, 1200W, 230Vac, 48Vdc, 20A
ESEC1-72-12I	Energy Storage External Charger,Modular, 1200W, 230Vac, 72Vdc, 12A
ESEC1-120-10I	Energy Storage External Charger,Modular, 1500W, 230Vac, 120Vdc, 10A
ESEC1-240-5I	Energy Storage External Charger, Modular, 1000W, 230Vac, 240Vdc, 4.5A
ESEC3S-12KI	Energy Storage External Charger, Modular, 12x1kW, 400/230Vac, 120/240 Vdc
ESEC3S-18KI	Energy Storage External Charger, Modular, 18x1kW, 400/230Vac, 120/240 Vdc

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