

Genset Battery Charger



Shown Above: LMES-10-12V/24V-U1

The LMESpro battery charger is designed to recharge and extend battery life utilizing multi-stage charging. This charger is completely automatic, lightweight and convection cooled. It offers a Universal AC-Input, without any tap or switch changes. The output is selectable for either 12 VDC or 24 VDC. LMESpro battery charger is suitable for various types of technologies in the Genset market such as Lead Acid, NiCad or Supercapacitor.

Standard Features

Microprocessor Controlled High Frequency Technology

Universal AC Input: 105-264 VAC (45-65Hz)

Selectable for Lead Acid, NiCad and SuperCap Technologies

Smart Four Stage Charging

Conformal Coated Circuit Boards

Temperature Compensation

Input and Output Surge Protection

Status LED Indicators

Modbus Communication (RTU)

UL 1236 (Pending)

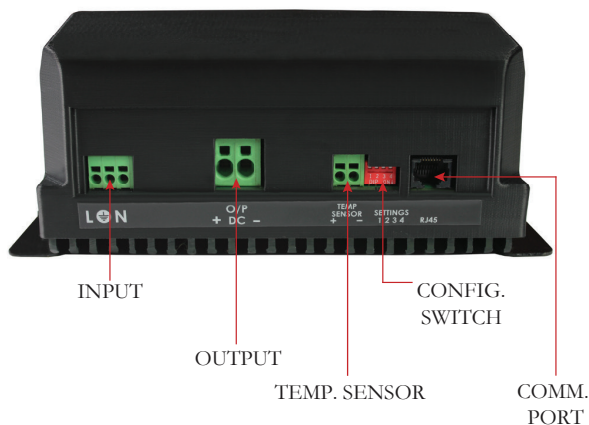
Meets CEC Efficiency Regulations

2 Year Warranty

Optional Accessories

22T SAE J-1939 Communication (CAN Bus)

Configuration Settings



System Mode Selection	12V
	24V
SuperCap Mode	Off
	On
Battery Cell Selection	5 Cell for SuperCap
	6 Cell for SuperCap
	12 Cell for SuperCap
	9NC Cell for NiCad Battery
	10NC Cell for NiCad Battery
	19NC Cell for NiCad Battery
Battery Type Selection	20NC Cell for NiCad Battery
	Lead AcidBattery
	NiCad Battery

Model Number Chart

Model Number	AC Input (100% load)		DC Output		Overall Dimensions W x D x H	Net Weight*	
	Volts (Nominal)	Amps	Volts (Nominal)	Amps		lbs	kgs
LMES-6-12V/24V-U1	120	1.5	12V or 24V	6	6.937 x 3.842 x 4.750" 176.19 x 126.74 x 80.94 mm	2.6	1.2
	240	0.8					
LMES-10-12V/24V-U1	120	3.3	12V or 24V	10	6.937 x 3.842 x 4.750" 176.19 x 126.74 x 80.94 mm	2.6	1.2
	240	1.7					

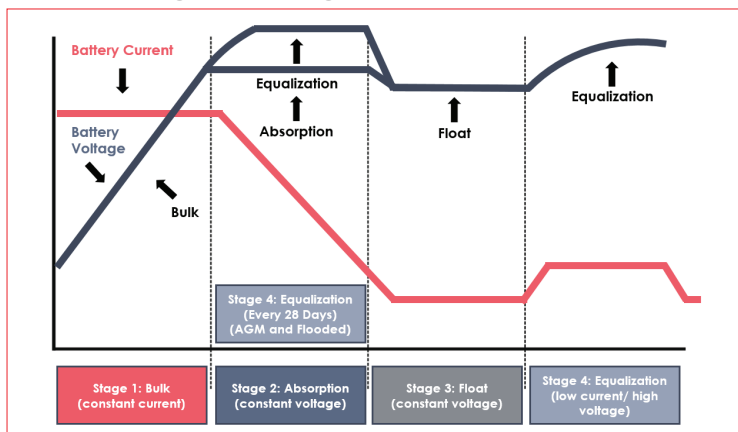
* Weight does not include shipping packaging

Charger Specifications

- **AC Input**
Single Phase Input
AC Input Range (105 - 264 VAC, 45 - 65 Hz)
- **DC Output**
6A @ 12V or 24V
10A @ 12V or 24V
- **Power Factor**
0.99
- **Load Regulation**
<±0.5%
- **Output Filtering**
<1% of Output Voltage
- **Input Protection**
Fuse with Surge and Transient Protection
- **Output Current Limit**
Factory set at 100%
- **Output Protection**
Fuse with Surge Protection
- **Thermal Protection**
- **Short Circuit Protection**
- **LED Indicators**
AC ON
Battery Charging Mode
Fault

- **Communication**
Modbus (RTU)
- **Environmental**
Operating: -40° to 50°C (-40° to 125°F) (Derated up to 70°C)
Storage: -40° to 60°C (-40° to 140°F)
Relative Humidity: 0 to 95% non condensing
- **Mounting**
Wall Mount
- **Cooling**
Convection
- **Cable Entry**
Bottom
- **Standards**
UL / CUL 1236 (Pending)
Complies with CEC Efficiency Regulations
ANSI C62.41A
EN 60335-1 (Electrical Safety)
IEC 60335-2-29 (Electrical Safety)
IEC 60068-2-6 (Sinusoidal Vibration)
EN 55011 (Radiated EMI)
IEC 1000-4-2 (Electrostatic Discharge)

Four Stage Charge Curve



Model Number Nomenclature

