

Cold Weather Package

Cold weather events are often the cause for a utility power outage. For that reason, generator set preparedness is especially important in low temperature environments.

The Cold Weather Package enables the generator set to start easier during cold temperatures, increasing reliability under harsh, wintery conditions.

The factory installed Cold Weather Package, available with our Sound Attenuated enclosures, means your generator set will arrive on-site ready for operation.

Features:

Door Inlet Actuator (for Damper control)

Canopy Air Inlet Actuator (for Damper control)

Gravity and Air Inlet Dampers

Pump Style Jacket Water Heater

Horizontal/Downflow Space Heaters

UL 10 Amp Battery Charger

125A Load Center

Door Inlet Actuator



Image shown may not reflect actual package.

Operation

The actuators provide true spring return operation for reliable fail-safe application and positive close off on air tight dampers. The spring return system provides consistent torque to the damper with, and without, power applied to the actuator.

TECHNICAL DATA

Power supply		24 VAC \pm 20% 50/60 Hz 24 VDC \pm 10%
Power consumption	running	5 W
	holding	2.5 W
Running time (nominal)	motor	< 40 to 75 sec
	spring	< 25 sec @ -4°F to 122°F [-20°C to 50°C]
		< 60 sec @ -22°F [-30°C]
Humidity		5 to 95% RH non-condensing
Ambient temperature		-22°F to 122°F [-30°C to 50°C]
Housing		NEMA type 2 / IP54
Housing material		zinc coated steel
Agency listings		cULus acc. to UL 873 and CAN/CSA C22.2 No. 24-93



Canopy Air Inlet Actuator

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Operation

The actuators provide true spring return operation for reliable failsafe application and positive close off on air tight dampers. The spring return system provides constant torque to the damper with, and without, power applied to the actuator.

TECHNICAL DATA

Power supply		24 VAC ± 20% 50/60 Hz 24 VDC +20% / -10%
Power consumption	running	6 W
	holding	2.5 W
Running time (nominal)	motor	< 40 to 75 sec
	spring	< 25 sec @ -4°F to 122°F [-20°C to 50°C] < 60 sec @ -22°F [-30°C]
Humidity		max. 95% RH non-condensing
Ambient temperature		-22°F to 122°F [-30°C to 50°C]
Housing		Nema 2, IP54, Enclosure Type2
Housing material		zinc coated metal and plastic casing
Agency listings		cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2004/108/EC & 2006/95/EC



Gravity and Inlet Dampers

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Gravity Damper

- Wide operating range – velocities up to 3000 fpm
- Corrosion resistant galvanized steel construction standard
- Mechanically locked blade seals

Air Inlet Dampers

- Blades constructed of AA5052 aluminum
- Shafts constructed of AA6061 aluminum.



Pump Style Jacket Water Heater

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Single Phase 2500 Watts Pump style jacket water heater is a complete coolant preheater. It features an integrated pump that combines the benefits of forced circulation with a compact design that can mount to a variety of small engine applications. Forced circulation of the coolant delivers uniform heating throughout the entire engine, extends element life and offers a significant reduction in electrical consumption.

UL Listed , ULc Listed

240V

Installation provided with shut-off valves

Horizontal/Downflow Space Heaters



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FEATURES

- Horizontal and downflow capability
 - One unit mounts either horizontally or vertically.
 - Louvers adjust up and down for control of throw direction.
 - Louvers have stops to prevent complete closing of the discharge area.
- 5 kW
- UL Listed & ULc Listed

Elements

- Aluminum-finned, copper clad steel sheath heating element has longer useful life, because of cooler sheath temperature and faster heat dissipation.
- Pull-through air flow design draws air across heating element for more even air distribution and cooler element operation.

Thermal cutout

Automatic reset linear thermal cut-out capillary type, provides protection over entire length of element area.

Volts	KW	Amps	PH	2-Stage Element	Std. Control Volts	Air Delivery CFM	FPM	T (F)	Motor RPM	HP	Horiz. Air Throw	Ship. WT)
208/240	3.7/5.0	18.0/21.0	1-3	5A	208/240	350	800	45	1600	1/100	12	24

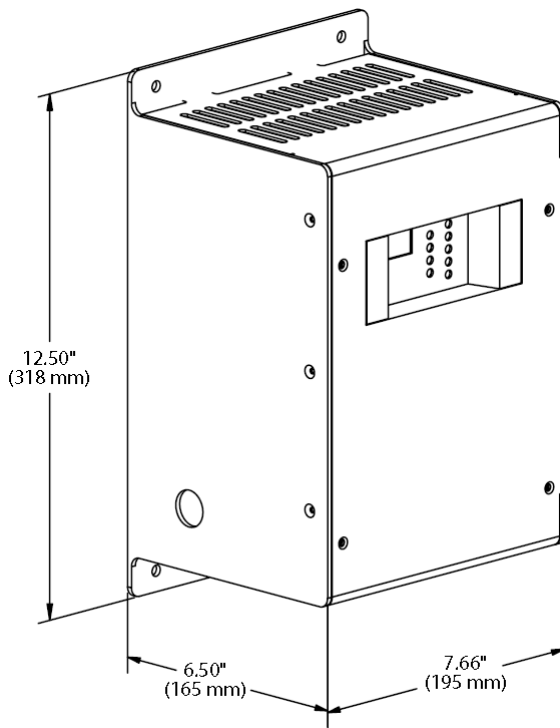


Image Shown may not Reflect Actual Package

UL 10 Amp Battery Charger

Output		Input	
Amps	Volts	Hz	Volts
10	24	50/60	110-120 208-240
Width	Depth	Height	Weight
195 mm (7.66")	165 mm (6.50")	318 mm (12.50")	10.4 kg (23 lb)

FEATURES

- Electronically current limited at 105% of rated output
- Alarm system
- Digital Display
- Lightning and voltage transient protection
- Protection of connected equipment
- Constant voltage, current limited, 4-rate automatic equalization
- IP 20 housing
- AC isolated from DC
- Temperature Compensation
 - On board temperature sensor with remote port
- Auto AC line compensation
- Output regulated by sensed battery voltage

SPECIFICATION

Input Supply	110-120 V 208-240 V
AC and DC Fuses	2 input and 2 output)
Output voltage	24V
Frequency	50/60 Hz
Operating temperature	-20°C (-4°F) to +60°C (140°F)

Housing constructed of rustproof anodized aluminum.

STANDARDS

- C-UL listed to UL 1236
- NFPA 70, NFPA 110
- CSA 22.2 No 107 certified
- UL 1564
- CE DOC to EN 60335
- IBC Seismic Certification

OPTIONS

NFPA 110 alarm package as follows:

- AC on Green led (indication)
- AC fail Red led and form C contact (2A)
- Float mode LED
- Fast charge LED
- Temp comp active LED
- Low battery volts Red LED & Form C contact
- High Battery Volts Red LED & Form C contact
- Charger fail Red LED & Form C contact
- Battery fault Red LED & Form C contact
 - Battery disconnected
 - Battery polarity reversed
 - Mismatched charger battery voltage
 - Open or high resistance charger to battery connection
 - Open battery cell or excessive internal resistance

125A Load Center



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SPECIFICATION

Line Rated Current	125 A
Number of spaces	8
Number of circuits	16
Number of tandem circuit breakers	8
System Voltage	120/240 V AC
NEMA degree of protection	NEMA 3R outdoor
Electrical connection	Lugs
Wiring configuration	3-wire
Material	Tin plated aluminium busbar
Enclosure material	Galvannealed steel
Cover finish	Gray baked enamel
Product certifications	UL Listed

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