

ChargeSense

Power Converter



CAT # 55-170-KIT



KEY BENEFITS

- + **AC to DC Automatic Recovery Charge:** Plugs into shore power and enables the battery to accept charge immediately upon connection.
- + **Instant BMS Wake Up:** Activates the Battery Management System (BMS) during low voltage sleep to restore charging after deep discharge.
- + **Fully Automatic Safeguard:** Works in the background with no user action once installed.

Smart External Power Activation

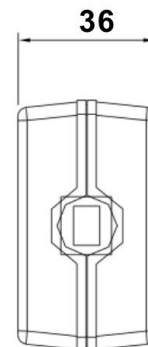
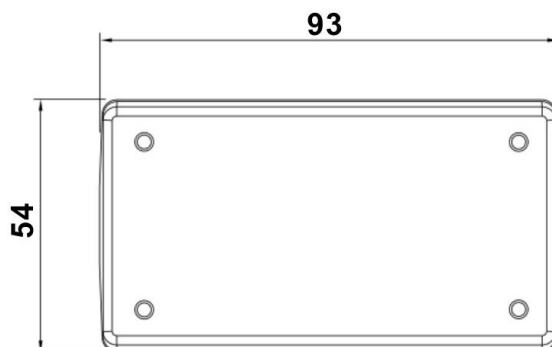
The ChargeSense converts shore power to 15V DC to automatically power on the BMS and enable charging. This improves system protection, reduces service calls, and ensures smooth, reliable battery recovery.

ChargeSense Details

85VAC to 264VAC input, 15V DC Output
Fully enclosed 94V-0 flame-retardant case

DIMENSIONS

Size (L x W x H)	3.7" x 2.1" x 1.4"	93.0mm x 54.0mm x 36.0mm
Weight	1.0lbs	0.5kg



SPECIFICATIONS

AC INPUTS

Input Voltage Range	85VAC ~ 264VAC
Frequency Range	47Hz ~ 63Hz
Efficiency	86.5%
AC Current	0.6A/115VAC 0.35A/230VAC
Inrush Current (max.)	Cold start 35A/115VAC 65A/230VAC
Leakage Current (max.)	0.75mA/240VAC

DC OUTPUTS

DC Voltage	15V
Rated Current	1.66A
Current Range	0A ~ 1.66AA
Rated Power (max.)	25W
Voltage Tolerance	±3.0%
Line Regulation	±1.0%
Load Regulation	±3.0%

ENVIRONMENTAL

Safety Certifications	UL62368-1
Overload Protection	110 ~ 150% rated output power. Protection type: Hiccup mode, recovers automatically after fault condition is removed
Over Voltage Protection	110 ~ 140% rated output voltage. Protection type : Clamp by zener diode
Working Temp.	-22°F to 158°F (-30°C to 70°C)
Working Humidity	20% ~ 90% RH non-condensing
Storage Temp. and Humidity	-40°F to 185°F (-40°C to 85°C) 10 ~ 95% RH non-condensing
Vibration	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes

Note:

BMS V9 Ampseal Harness (**#75-H3-EBR**) required for connection

Powering Innovation.

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