









# SOPHISTICATED, VERSATILE BATTERY CHARGERS FOR GEN SET APPLICATIONS

## SENTINEL BATTERY CHARGERS

### Sentinel 300P/150

	Operate on both 12-volt and 24-volt systems
	Self-Configuration Option to Adjust Battery Automatically
	Optimizes Battery Life
	Available PC Configuration Tool
	AutoBoost and Temperature Compensation
	Short Circuit and Reverse Polarity Protection



cUL<sub>us</sub> / cRU<sub>us</sub> and CE compliant

Computronic Controls, a division of FW Murphy, provides a range of battery charger options. The Sentinel 300P battery charger is self-regulating and designed to be versatile enough to work with any battery and any application. The Sentinel 300P's sophisticated technology automatically detects battery system settings, such as wall voltage, and adjusts to provide optimum support.

Unlike other battery chargers, the Sentinel 300P can operate on both 12-volt and 24-volt systems and features NFPA110 rating.

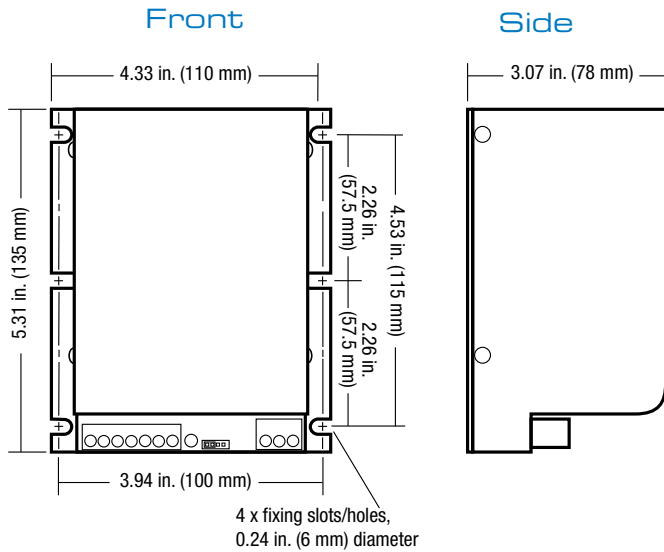
For users with simpler application requirements, Computronic Controls created the Sentinel 150 battery charger.

The Sentinel 150 has similar functionality as the Sentinel 300P, and users can designate if they want the 12-volt or 24-volt version for their particular application.

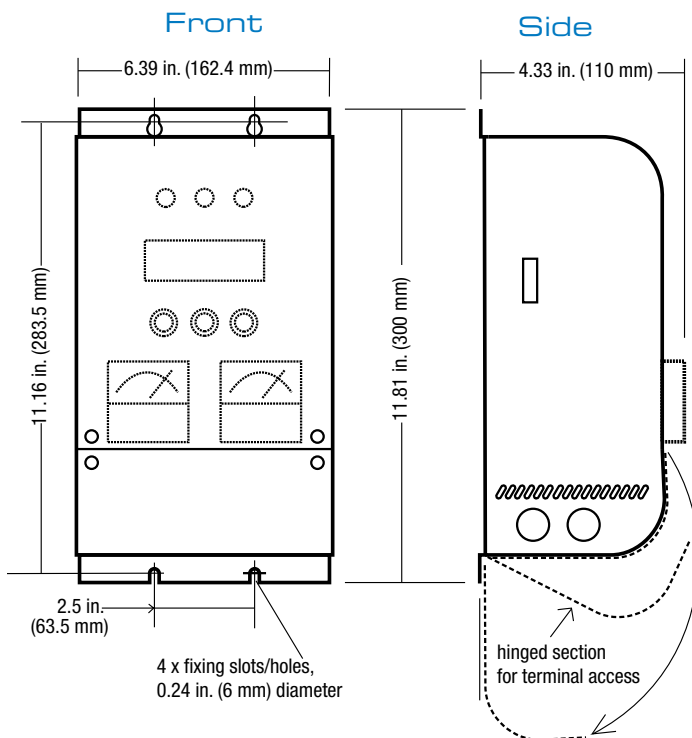
Both the Sentinel 150 and the Sentinel 300P come equipped with temperature compensation functionality through an internal sensor that monitors the ambient temperature around the battery charger itself.

The Computronic Controls Sentinel battery chargers carry UL1236 and CSA 22.2 certifications.

## OPEN FRAME 150 DIMENSIONS



## ENCLOSED FRAME 300P DIMENSIONS



## TECHNICAL SPECS (all models):

**Power Supply**  
 Operating voltage: 95 – 250 V AC  
 Operating frequency: 47 – 63 Hz

**DC Charge Output**  
 Voltage ripple: <1%  
 Line regulation: <2%  
 Load regulation: <2%

**Physical:**  
 Humidity: 20% to 90% RH  
 Electrical safety: 2006/95/EC

**UL Approvals**  
 BBGQ: UL 1236, CSA22.2 no. 107.2 [All models]  
 (E)SNTL300P and ENSTLUL1501210xxNFPA models only:  
 BBHH: UL 1236 SE

### SENTINEL 150

**DC Charge Output**  
 Nominal voltage: 12 or 24 V DC  
 Maximum current limit: 5 A; 10 A [12V models only]

**Alarm Outputs**  
 Charge fail, mains AC fail: 1 x solid state relay, + DC during normal charge, open circuit during fault

**High and low battery voltage (ENSTLUL1501210xxNFPA only):**  
 2 x solid state relays, dry/volt-free contacts, closed on fault  
**Current rating (all relay outputs):**  
 250mA max @ 20 VDC (resistive load), UL class 2

**Operating temperature:** -4 to +140°F / -20 to +60°C  
**Electromagnetic compatibility:** 2004/108/EC (EN 61000-6-2, EN 61000-6-4)

### SENTINEL 300

**DC Charge Output**  
 Nominal voltage: programmable 12 or 24 V DC  
 Float/boost voltage: programmable  
 Maximum current limit: 10 A

**Outputs: 3 (4 for non-CAN configurations)**  
 All models: 1 x SPCO (RL1), 1 x SPNC (RL2), 1 x SPNO (RL3), dry/volt-free contacts (common feed for RL1, RL2 & RL3)  
 Standard models: (non-CAN configurations)  
 1 x SPNC (RL4), dry/volt-free contacts; standard output functions (charge fail, AC fail, low battery volts, high battery volts) are NFPA 110 compliant.

**Ratings (all relays):** 1A max @ 30 VDC (resistive load), UL class 2

**Inputs: 2, Closed to negative DC to activate, configurable function**  
**Operating temperature:** -40 to +140°F / -40 to +60°C

**Electromagnetic compatibility:** 2004-108-EC, EN 55022 class B (EN 61000-6-1, EN 61000-6-3)

#### FW MURPHY

P.O. Box 470248  
 Tulsa, Oklahoma 74147 USA +1 918 317 4100  
 Fax: +1 918 317 4266  
 E-mail: sales@fwmurphy.com

#### FW MURPHY (LATIN & SOUTH AMERICA)

E-mail: americasales@fwmurphy.com

#### FW MURPHY (INDIA)

E-mail: indiasales@fwmurphy.com

#### FRANK W. MURPHY, LTD

Church Rd Laverstock, Salisbury SP1 1QZ UK  
 Phone: +44 1722 410055 Fax: +44 1722 410088  
 E-mail: sales@fwmurphy.co.uk  
 Web site: www.fwmurphy.co.uk

#### FW MURPHY INSTRUMENTS (HANGZHOU) CO. LTD

77 23rd Street  
 Hangzhou Economic & Technological Development Area  
 Hangzhou, Zhejiang 310018 China  
 Phone: +86 571 8788 6060 Fax: +86 571 8684 8878  
 E-mail: apsales@fwmurphy.com



USA-ISO 9001:2008 FM 28221  
 UK-ISO 9001:2008 FM 29422  
 CHINA-ISO 9001:2008 FM 52385  
 Registered Facilities

#### COMPUTRONIC CONTROLS, LTD

41 - 43 Railway Terrace Nechells  
 Birmingham B7 5NG UK  
 www.computroniccontrols.com

