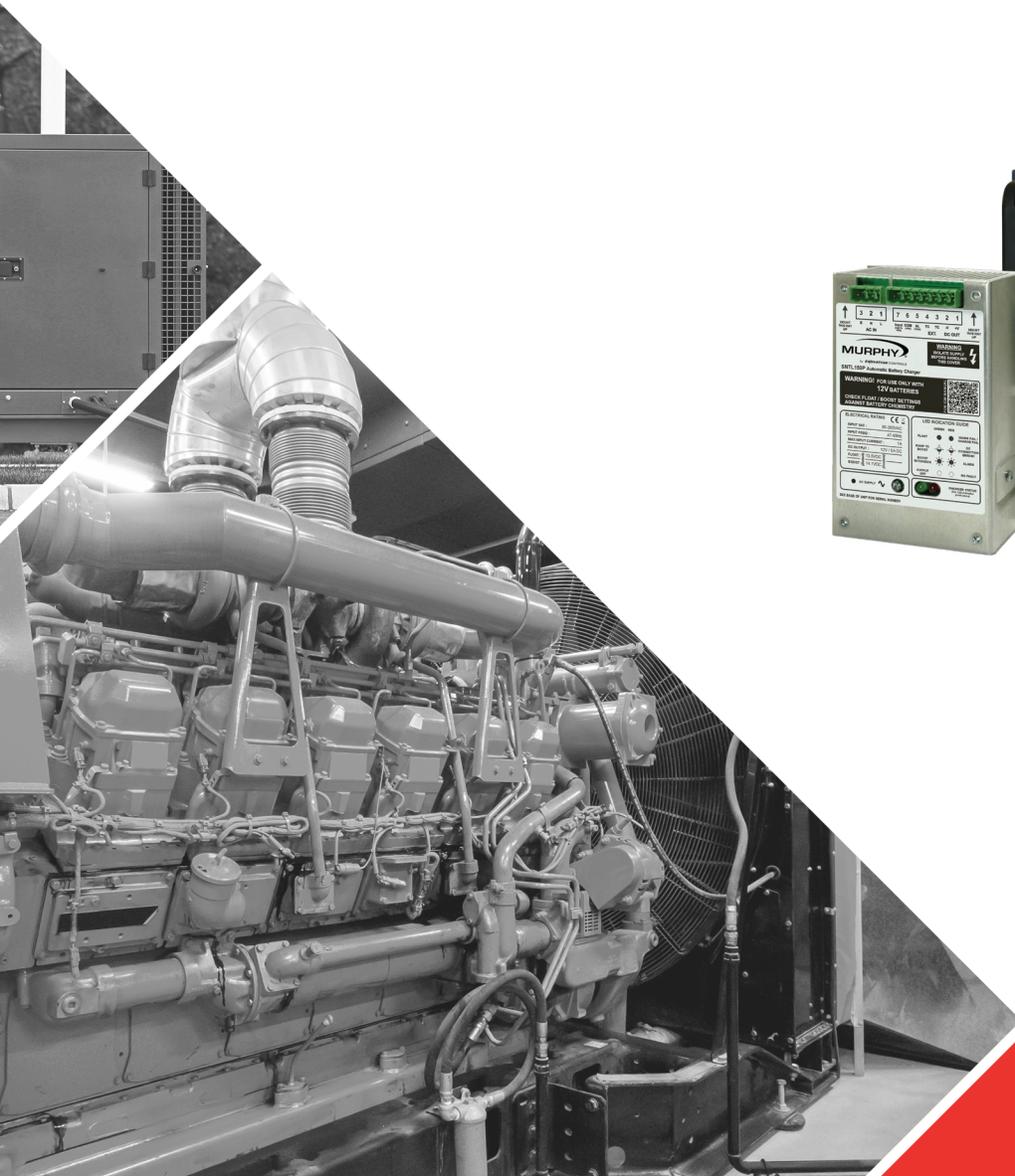


SENTINEL 300P AND 150P SERIES

HIGH PERFORMANCE BATTERY CHARGERS FOR OPTIMIZED
BATTERY POWER, LIFETIME AND RELIABILITY

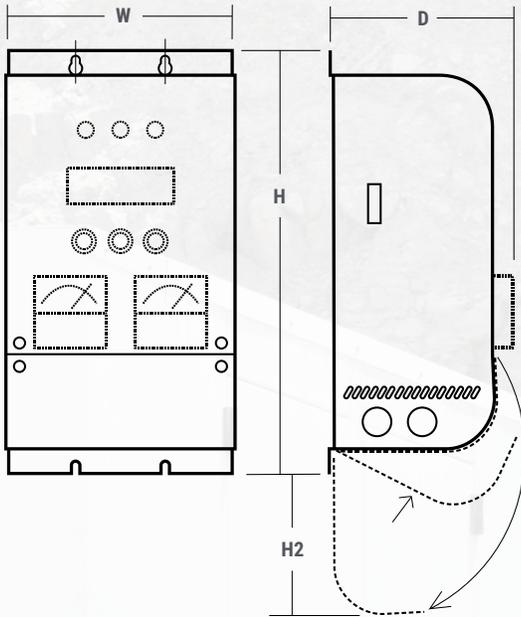


MURPHY[®]
by **ENOVATION** CONTROLS

TECHNICAL SPECIFICATIONS

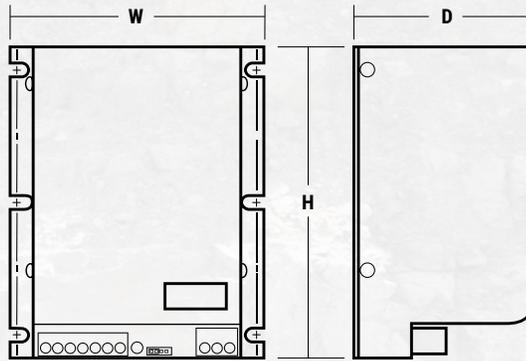
AC Power Supply	300P	150P
Operating Voltage	95-250 VAC	95-265VAC
Frequency	47-63 Hz	
DC Charge Output		
Ratings	10A @ 12/24 V	5A @ 12 V 5A @ 24 V
Calibration	Configurable: DIP Switch or PC Software	Configurable: PC Software
Voltage Ripple	< 1%	
Line Regulation	< 2%	
Load Regulation	< 2%	
Temperature Compensation	3mV / °C / cell over range -10 to +50 °C (requires RTC remote sensor)	
Input / Output		
Alarm Outputs	4 (NFPA Compliant)	1
Control Input	1 (Ramp to Boost)	1 (Configurable)
Communication	RS485 Serial, optional CAN	TTL-USB (Configuration)
Physical / Standards		
Operating Temperature	-40° to 140° F (-40° to 60° C)	-22° to 140° F (-30° to 60° C)
Electromagnetic Compatibility	CE 2004/108/EC	
Electrical Safety	CE 2006/95/EC	
UL approvals	 Enclosed Models	 Open Frame
<small>*Tested and approved by UL to : UL1236 - Battery chargers for charging engine-starting batteries, and CSA22.2 No. 107.2 - Battery Chargers</small>		
NFPA110	Yes	No

Enclosed Models (ESNTL)



Model	W	H	H2	D
ESNTL300P	6.5" (165mm)	11.8" (300mm)	3.1" (80mm)	4.9" (125mm)

Open Frame Models (SNTL)



Model	W	H	D
SNTL300P	6.2" (158mm)	8.1" (208mm)	3.3" (84mm)
SNTL150PXXX	4.3" (108mm)	5.3" (135mm)	2.2" (55mm)

High Performance Battery Chargers for Continuous Float Charge & Standby Power Applications

Murphy Sentinel series battery chargers provide automatic, fast and accurate charging of standby batteries. Sentinel advanced chargers ensure optimal battery power, lifetime and reliability in demanding applications such as power generators, fire-pumps and critical engine-driven equipment.

Switch mode power technology gives a low-ripple DC charge output, plus wide AC supply voltage tolerance, in a compact, light and power-efficient package. Unlike some generic chargers, Sentinel's multistage DC output is optimized for your battery type and application – Lead Acid or NiCd; sealed or vented cells; 'wet', AGM or Gel electrolyte; lead antimony or calcium plates, cell temperature – all critical factors for maintaining battery health, preventing under/over charge and ensuring peak performance.

Sentinel 150P chargers give OEMs the flexibility to select battery type and control options using a PC-based software tool. For ultimate versatility and control, the Sentinel 300P allows additional configuration using PC software, onboard switches or display menus. 300P models also feature a 12/24V 10A output that can be paralleled for higher power applications, with model options for metering, backlit LCD and RS485/CAN network connectivity.

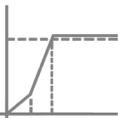
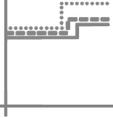
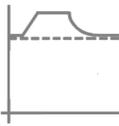
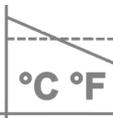
Sentinel chargers are available in a range of enclosed and open-frame variants for standalone use or inclusion inside existing control panels. Sentinel 300P models meet UL/CSA standards and NFPA110 charge rates, metering and alarm output specifications.

ENSURE YOUR ENGINE-DRIVEN EQUIPMENT REALLY IS ON STANDBY. CHOOSE SENTINEL FOR PEAK BATTERY POWER AND LIFETIME.

ADVANCED CHARGER FEATURES

SAFEGUARD YOUR BATTERY PERFORMANCE AND LIFETIME:

- Multi-Stage, Automatic Charging: Bulk, Float and AutoBoost
- Temperature Compensation Prevents Under/Over Charge
- Light, Compact & Energy Efficient
- PC Configuration Tool for Programmable Models
- 12V, 24V or 12/24V Outputs

 <p>Multistage charging: bulk, float and boost</p>	 <p>reverse polarity and short circuit protection</p>	 <p>optimized calibration for multiple battery types</p>
 <p>Alarm outputs, NFPA710 compliant options</p>	 <p>autoboost: automatic, periodic initiation and termination of boost</p>	 <p>remote datacomms for configuration and monitoring</p>
 <p>Low ripple output: good for all batteries, essential for VRLA</p>	 <p>Standards compliance: CE, UL, CSA, NFPA, ISO9001</p>	 <p>Temperature compensation of DC output: prevents under/over charge</p>



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