

# AT10.I SERIES OPTIONS & ACCESSORIES

## FOR FLOAT BATTERY CHARGERS



**Options & Accessories  
For Advanced Technology  
Microprocessor Control  
Battery Charger**

**Product information  
complete with:**

- Sample applications
- Descriptions
- Factory installation
- Field installation
- Ordering information

**SAMPLE APPLICATION**

**DESCRIPTION**

**FACTORY INSTALLED?**

**FIELD INSTALLABLE?**

**ORDERING INFORMATION**



**Lightning Arrestor** An industrial grade surge arrestor in polycarbonate housing, rated for 20,000 A surge minimum. Installed internally. Recommended for installations with risk of frequent high surges, such as high elevations or Oklahoma.

YES

YES

Specify in ordering code when ordering battery charger. For field installation, order Part No. **EJ1074-00.**



**Medium Interrupting Capacity Circuit Breakers** Thermal-magnetic circuit breakers with higher Ampere interrupting ratings than the standard. For most battery chargers, the AIC rating is 25,000A for the ac input, 10,000A for the dc output. For AT10.1 Group 1 ratings, ac and dc breakers must be ordered together. For Group 2 (single phase) and AT30 (three phase), ac and dc breakers can be specified separately.

YES

NO

Specify in ordering code when ordering battery charger.



**High Interrupting Capacity Circuit Breakers** Thermal-magnetic circuit breakers with higher Ampere interrupting ratings than the standard. For most battery chargers, the AIC rating is 65,000A for the ac input, 25,000A for the dc output. For AT10.1 Group 1 ratings, ac and dc breakers must be ordered together. For Group 2 (single phase) and AT30 (three phase), ac and dc breakers can be specified separately.

YES

NO

Specify in ordering code when ordering battery charger.



**Temperature Compensation** Adjusts the charger output voltage up or down in response to battery temperature fluctuations. Temperature is measured by a probe mounted on or near the battery, and connected by a cable to the battery charger. Compatible with lead-acid and Nickel-Cadmium batteries. Recommended for VRLA batteries. Cable lengths up to 200 ft are available.

NO

YES

Order Part No.:  
**EJ5033-00** 25 ft cable  
**EJ5033-01** 50 ft cable  
**EJ5033-02** 100 ft cable  
**EJ5033-04** 200 ft cable



**Drip Shield** Shown here for the Group 1 style-586 enclosure. The drip shield prevents overhead water sources from entering the equipment and doing all sorts of nasties to the electronics.

NO

YES

Specify in ordering code when ordering battery charger. For field installation order one of the following part numbers.  
 Group 1 Ratings  
**EI0191-00** All Ratings  
 Group 2 Ratings  
**EI0191-01** 5017 Encl.  
**EI0191-02** 5018 Encl.



**NEMA 4/12/13 Enclosure** A "shell" enclosure meeting the requirements for NEMA 4, 12 and 13 enclosures. A completely assembled, stand-alone AT10.1 battery charger mounts within the shell enclosure. Larger ratings are fan cooled; user supplies 120Vac for the fan.

YES

NO

Order Part No.:  
 Group 1 Ratings  
**EI0214-XX**  
 Group 2 Ratings  
**EI5036-00** 5017 Encl.  
**EI5037-00** 5018 Encl.

**SAMPLE APPLICATION**

**DESCRIPTION**

**FACTORY INSTALLED?**

**FIELD INSTALLABLE?**

**ORDERING INFORMATION**



**Cabinet Heater** Useful for preventing internal moisture condensation in equipment that is to be stored, or operated intermittently, at low temperatures. In Group 1 ratings, mounts in a separate “basement” enclosure, similar to the penthouse. Installs internally in Group 2 ratings.  
Rating: 100W; requires 120Vac, provided by user. Equipped with a circuit breaker, and a thermostat to turn off the heater when the temperature rises to 40° F.

NO

YES

Order Part No.:  
Group 1 Ratings  
**EJ1223-00**  
Group 2 Ratings  
**EJ5041-00** 5017 Encl.  
**EJ5042-00** 5018 Encl.



**Padlock for Front Panel** The front panel controls can be disabled by setting a jumper on the main control PC board, but for installations where extra security is required, the front panel can be locked closed. Padlock is supplied with two keys.

YES

YES

Order Part No.:  
Group 1 Ratings  
**EI0215-00**  
Group 2 Ratings  
**EI5038-00** 5017 Encl.  
**EI5039-00** 5018 Encl.

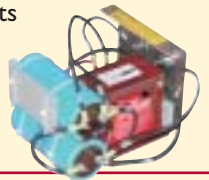


**Standard Output Filtering** Output filtering is essential whenever there is a need for low ripple and noise on the dc bus for critical loads. Standard filtering limits ripple to no more than 30 mVrms (measured at the battery terminals). Recommended for all installations using VRLA or gelled electrolyte batteries.

YES

YES

Specify in ordering code when ordering battery charger. For field installation, refer to the replacement parts tables in the User's Manual, or consult the factory.



**Battery Eliminator Filtering** At sites where the battery may occasionally be disconnected from the dc bus for maintenance, additional filtering is essential to limit the ripple and noise for critical loads. Battery Eliminator Filtering adds additional filtering to the Standard Output Filtering (described above), to limit output ripple and noise to 30 mVrms (100mVrms for 130Vdc chargers). Also recommended for remote installations, or sites where periodic maintenance is infrequent, to protect critical loads from unforeseen battery defects.

YES

YES

Specify in ordering code when ordering battery charger. For field installation, refer to the replacement parts tables in the User's Manual, or consult the factory.



**Auxiliary Relay PC Board** The AT10.1 battery charger has the most frequently used alarms built in as standard, with individual LED indicators on the front panel. One common alarm relay (form C) is provided. The Auxiliary Relay PC Board adds separate relay contacts (2 form C) for each alarm.  
The Auxiliary Relay PC Board mounts in the penthouse enclosure for Group 1 ratings, and is installed internally in Group 2 ratings.

YES

YES

Specify in ordering code when ordering battery charger. For field installation order one of the following part numbers.  
Group 1 Ratings  
**EI0213-00** All Ratings  
Group 2 Ratings  
**EI0213-02** All Ratings

**SAMPLE APPLICATION**

**DESCRIPTION**

**FACTORY INSTALLED?**

**FIELD INSTALLABLE?**

**ORDERING INFORMATION**



**Ground Pad** Provides a convenient means to tie the AT10.1 battery charger to the building ground bus. Ground pad is a copper bus, 1/8" X 1" X 8," supplied with one solderless compression terminal, rated for #14- #2 AWG copper or aluminum.

YES

YES

Specify in ordering code when ordering battery charger. For field installation order one of the following Part No.

Group 1 Ratings  
**EI0195-00**  
Group 2 Ratings  
**EI0195-02**



**Fungus Proofing** Sometimes called tropicalization. This treatment coats electrical components and connections with a fungus-resistant non-conductive film (approximately 1 mil thickness). User's termination points are not coated, nor are relay contacts, and any connectors (such as PC board connectors) that may require operation during the service life of the equipment. The material is an air dry aerosol application, and is fully cured when the equipment is shipped.

YES

YES

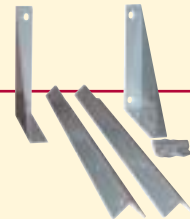
Specify in ordering code when ordering battery charger.



**Floor Stand** Used when floor mounting is required for smaller AT10.1 battery chargers. The floor mount stand raises the battery charger approximately 50" from the floor. The floor mount stand is bolted to the floor; the kit includes a drilling pattern and all assembly hardware. Floor mounting bolts are user supplied.

NO

YES



Order Part No.:  
Group 1 Ratings  
**EI0192-00**

Group 2 Ratings  
**EI0192-02** 5017 Encl.



**Rack Mount Brackets** Used for installing AT10.1 battery chargers in relay racks. The rack mount brackets adapt any AT10.1 battery charger to 19", 23" or 24" racks (with a few exceptions). All hardware is included for assembling the brackets to the AT10.1.

NO

YES

Order Part No.:  
Group 1 Ratings  
**EI0193-00**

Group 2 Ratings, 19-in rack  
**EI0193-01** 5017 Encl.  
**(N/A)** 5018 Encl.

Group 2 Ratings, 23/24-in rack  
**EI0193-02** 5017 Encl.  
**EI0193-03** 5018 Encl.



**Communications Option** Allows remote monitoring and full control of a battery charger using MODBUS or DNP3 Level 2 protocols. Can be used with local SCADA systems, or with an optional modem for off-site communications.

YES

YES

Order Part No.:  
Communications kit:  
**EJ5037-01** 12Vdc  
**EJ5037-02** 24Vdc  
**EJ5037-03** 48Vdc  
**EJ5037-04** 130Vdc  
Optional modem:  
**PN5005-00**  
Optional modem cable:  
**EH5026-00** 10 ft  
**EH5026-01** 25 ft  
**EH5026-02** 50 ft

**NOTE: Kits for field installation include separate power supply components.**