

**JD0064-01**

# AT10.1/AT30 Series Battery Charger

## *Start-up Procedure*

START-UP DATE	PERFORMED BY
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Step (standard features)	Instructions	Results
<b>Clean battery charger</b>	<ul style="list-style-type: none"> <li>All vents clean and open.</li> <li>Remove dust and debris from inside of unit.</li> </ul>	<input type="checkbox"/> OK <input type="checkbox"/> OK
<b>Check all electrical connections and wiring</b>	<ul style="list-style-type: none"> <li>TB1 connections all tight.</li> <li>Internal wiring connections tight, slip-on connectors fully seated. Wire and lug insulation in good condition.</li> <li>Terminations at battery or bus are tight and corrosion free.</li> </ul>	<input type="checkbox"/> OK <input type="checkbox"/> OK <input type="checkbox"/> OK
<b>Check ac input voltage</b>	<ul style="list-style-type: none"> <li>Measure at TB1-L1, TB1-L2 &amp; TB1-L3 (AT30 only) using ac voltmeter. Value must be within +10%, -12% of nominal.</li> </ul>	Input _____ Vac
<b>Check dc output voltage</b>	<ul style="list-style-type: none"> <li>Measure at TB1(+) and TB1(-) using dc voltmeter. Value should agree with front panel voltmeter within 1%, and must be correct values for your battery. If the charger is using a temperature compensation probe, see the curve in Section 1.11 of user's manual to determine correct battery voltage.</li> </ul>	Float _____ Vdc Equalize _____ Vdc
<b>Check ripple voltage</b>	<ul style="list-style-type: none"> <li>Measure at battery terminals using ac voltmeter set to milliVolts scale.</li> <li>Check against specification in Appendix A of user's manual.</li> </ul>	Ripple _____ mVac
<b>Test front panel indicators</b>	<ul style="list-style-type: none"> <li>Press <b>LAMP TEST</b> key on front panel.</li> </ul>	<input type="checkbox"/> OK
<b>Test common alarm relay</b>	<ul style="list-style-type: none"> <li>Press <b>LAMP TEST</b> key and hold for 4 seconds. Common alarm relay will transfer.</li> </ul>	<input type="checkbox"/> OK
<b>Exercise front panel controls</b>	<ul style="list-style-type: none"> <li>Switch from Float to Equalize, then back to Float.</li> <li>Turn off the dc circuit breaker. <b>E 07</b> may appear on display (requires at least 5% of rated output current). Reset breaker.</li> </ul>	<input type="checkbox"/> OK <input type="checkbox"/> OK
	<ul style="list-style-type: none"> <li>Cycle through meter modes. See Section 2.2.2 of user's manual.</li> </ul>	<input type="checkbox"/> Volts OK <input type="checkbox"/> Amps OK <input type="checkbox"/> Hours OK
	<ul style="list-style-type: none"> <li>Cycle through equalize methods. See Section 2.2.3 of user's manual.</li> </ul>	<input type="checkbox"/> Manual Timer OK <input type="checkbox"/> Manual Equalize OK <input type="checkbox"/> Auto-Eq Timer OK
	<ul style="list-style-type: none"> <li>Turn off ac circuit breaker. The <b>AC INPUT FAILURE</b> indicator should light. Reset breaker.</li> </ul>	<input type="checkbox"/> Alarm OK
<b>Check voltage and alarm settings</b>	<ul style="list-style-type: none"> <li>Use <b>EDIT/ENTER</b> key to scroll through settings. See Section 2.3 of user's manual.</li> <li>Press Up Arrow and <b>EDIT/ENTER</b> keys together to check current limit setting</li> </ul>	<input type="checkbox"/> Float OK <input type="checkbox"/> Equalize OK <input type="checkbox"/> HVDC OK <input type="checkbox"/> LVDC OK Current Limit _____ Adc
<b>Final checks</b>	<ul style="list-style-type: none"> <li>Make sure plexiglas safety cover is in place over I/O terminal board.</li> <li>Restore charger to normal operation.</li> <li>Close latch on front panel door.</li> </ul>	<input type="checkbox"/> OK <input type="checkbox"/> OK <input type="checkbox"/> OK

Step (optional features)	Instructions	Results
<b>Test auxiliary alarm relays</b>	<ul style="list-style-type: none"> <li>Press <b>LAMP TEST</b> key and hold for 4 seconds. Alarm relays will transfer.</li> </ul>	<input type="checkbox"/> OK
<b>Check integrity of remote wiring</b>	<ul style="list-style-type: none"> <li>Remote sense wiring. See Section 1.9 of user's manual.</li> <li>Temperature compensation wiring. See Section 1.11 of user's manual.</li> <li>Temperature compensation probe. See Section 1.11 of user's manual.</li> </ul>	<input type="checkbox"/> OK <input type="checkbox"/> OK <input type="checkbox"/> OK
<b>Final checks</b>	<ul style="list-style-type: none"> <li>Close padlock or key lock.</li> </ul>	<input type="checkbox"/> OK