



MAINTENANCE DATE	PERFORMED BY
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Step (standard features)	Instructions	Results
Clean battery charger	<ul style="list-style-type: none"> All vents clean and open. Dust and debris removed from inside of unit. 	<input type="checkbox"/> OK <input type="checkbox"/> OK
Check all electrical connections and wiring	<ul style="list-style-type: none"> I/O panel (TB1) connections all tight. Internal wiring connections tight, and slip-on connectors fully seated. Wire and lug insulation in good condition. Terminations at battery or dc bus are tight and corrosion free. 	<input type="checkbox"/> OK <input type="checkbox"/> OK <input type="checkbox"/> OK
Check ac input voltage	<ul style="list-style-type: none"> Measure at TB1-L1, TB1-L2, and TB1-L3 (AT30 only) using an ac voltmeter. Value must be within +10%, -12% of nominal. 	Input _____ Vac
Check dc output voltage	<ul style="list-style-type: none"> Measure at TB1(+) and TB1(-) using a 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. 	Float _____ Vdc Equalize _____ Vdc
Check ripple voltage	<ul style="list-style-type: none"> Measure ac ripple at battery terminals using an ac voltmeter set to milliVolts scale. Check against specification in Appendix A of user's manual. 	Ripple _____ mVac
Test front panel indicators	<ul style="list-style-type: none"> Press LAMP TEST key on front panel. 	<input type="checkbox"/> OK
Test common alarm relay	<ul style="list-style-type: none"> Press LAMP TEST key, and hold for 4 seconds. Summary alarm relay at A1-TB3 will transfer. 	<input type="checkbox"/> OK
Exercise front panel controls	<ul style="list-style-type: none"> Switch from Float to Equalize, then back to Float. Turn off (open) the dc circuit breaker (CB2). E 07 may appear on display (requires at least 5% of rated output current). Reset breaker. 	<input type="checkbox"/> OK <input type="checkbox"/> OK
	<ul style="list-style-type: none"> Cycle through meter modes. See Section 2.2.2 of user's manual. 	<input type="checkbox"/> Volts OK <input type="checkbox"/> Amps OK <input type="checkbox"/> Hours OK
	<ul style="list-style-type: none"> Cycle through equalize methods. See Section 2.2.3 of user's manual. 	<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"> Turn off (open) the ac circuit breaker (CB1). The AC INPUT FAILURE indicator LED should light. Reset breaker. 	<input type="checkbox"/> Alarm OK
Check voltage and alarm settings	<ul style="list-style-type: none"> Use EDIT/ENTER key to scroll through settings. See Section 2.3 of user's manual. Press Up Arrow and EDIT/ENTER keys together to check current limit setting 	<input type="checkbox"/> Float OK <input type="checkbox"/> Equalize OK <input type="checkbox"/> HVDC OK <input type="checkbox"/> LVDC OK Current Limit _____ Adc
Final checks	<ul style="list-style-type: none"> Make sure acrylic safety cover is in place over I/O terminal board. Restore charger to normal operation. Close latch on front panel door. 	<input type="checkbox"/> OK <input type="checkbox"/> OK <input type="checkbox"/> OK

Step (optional features)	Instructions	Results
Test auxiliary alarm relays	<ul style="list-style-type: none"> Press LAMP TEST key and hold for 4 seconds. The discreet alarm relays at TB4 will transfer. 	<input type="checkbox"/> OK
Check integrity of remote wiring	<ul style="list-style-type: none"> Remote sense wiring. See Section 1.9 of user's manual. Temperature compensation wiring. See Section 1.11 of user's manual. Temperature compensation probe. See Section 1.11 of user's manual. 	<input type="checkbox"/> OK <input type="checkbox"/> OK <input type="checkbox"/> OK
Final checks	<ul style="list-style-type: none"> Close padlock or key lock. 	<input type="checkbox"/> OK

Step (10-year repair)	Instructions	Results
Replace Capacitors	<ul style="list-style-type: none"> Order and replace optional electrolytic filter capacitors (C1/C2). 	<input type="checkbox"/> OK