

Data Sheet 10SM11 Controller

ELECTRICAL CHARACTERISTICS

Absolute Maximum Ratings†

Battery (B+).....	33V
All digital inputs with respect to ground.....	▼ 200V @ 15% D.C.
D+ or D- signal pins.....	▼ 250mA
Outputs (back feed condition).....	Battery +0.7V
Storage temperature.....	-65°C to +150°C
Ambient temperature with power applied.....	-40°C to +85°C
ESD protection on all pins.....	4 kV

† **NOTICE:** Stress above those listed under “Absolute Maximum Ratings” may cause permanent damage to the controller. This is a stress rating only and functional operation of the controller at these or any other conditions above those indicated in the operational listings of this specification is not implied. Exposure to Absolute Maximum Rating conditions for extended periods may affect controller reliability.

Specifications: This is a LEAD-FREE (Pb) assembly.



Power supply input - nominal	9-30 VDC
Reverse polarity protection	Yes
Transient suppression	1500W@35 VDC
Digital inputs	All digital inputs active high
Input voltage span	▼ 30 VDC
Input impedance	3.3K↕
High-level input voltage threshold (1)	3.1 VDC
Low-level input voltage threshold (0)	1.35 VDC
Hysteresis of input voltage	1 VDC
Frequency bandwidth	0 to 1Khz
Outputs	
Number of outputs	11
Short proof protected	Yes
Driver resistance	.016Ω
Nominal drive current	3 Amp RMS
Peak drive current	20 Amps for 3 seconds @ 25°C

