

SECTION 6 | Specifications

SPECIFICATIONS OF CHARGE CONTROLLER - MSK-10A

PARAMETER	SPECIFICATIONS
Electrical	
Nominal Battery System Voltage	12V / 24V, Auto Detect
Rated Charge / Discharge Current	10A
Minimum Battery Voltage to Start Controller	6V
Self Consumption	≤ 8.4mA
Temperature Compensation	18mV/°C (With built-in Temperature Sensor)
Battery Charging	NOTES: (i) Specifications are for Sealed / AGM Lead Acid Battery (ii) All voltage specifications are at 25°C
Type of Lead Acid Battery	Sealed, AGM
Bulk Charge Current	Equal to instantaneous Short Circuit Current Isc of the Solar Array
Absorption (Boost) Stage Voltage, "Va"	14.4V
Absorption (Boost) Stage Duration	2 Hrs
Float Voltage, "Vf"	13.8V
Exit to Absorption (Boost) when in Float Stage	13.2V
Under Voltage Warning	12.0V (LED Battery Status Indicator Orange)
Under Voltage Warning Auto Reset	12.2V
Over Voltage Limit	≥15.5V (Charging Stops)
Over Voltage Limit Auto Reset	≤ 15.0V (Charging Resumes)
Over Voltage Disconnect Indication	16.0V
Control on Load Terminals	
Low Battery Disconnect	11.1V
Low Battery Reconnect	12.6V
Environmental	
Operating Temperature	-35°C to +55°C
Storage Temperature	-35°C to 80°C
Humidity	≤95% Non Condensing
Ingress Protection (IP) Rating	IP-30 (Protected against ingress of objects > 2.5mm; Not protected against ingress of water)
Mechanical	
Input Output Connections	Moving Cage Type, 4mm ² /AWG#12
Compliance	
Electro Magnetic Compatibility	CE Marked – Conformity with EMC Directive 2004/108/EC

Note: Specifications are subject to change without notice.

2 Year Limited Warranty