

TriStar MPPT Default Charging Programs

Default DIP Switch Charging Settings

v01



Abstract:

This document provides a complete listing of the default charging parameters for all DIP switch settings on the TriStar MPPT controller. Be sure to check with your battery manufacturer as to which default program is appropriate for your batteries.

Tristar MPPT Factory Default Charging Programs 1 through 7

Battery Type	Absorption	Float	Equalization	Absorption	Absorption	Absorption	Equalize	Equalize	Equalize
	Stage (voltage)	Stage (voltage)	Stage (voltage)	Time (minutes)	Extension (voltage)	Extension Time (minutes)	Time (minutes)	Timeout (minutes)	Interval (days)
1 - Sealed	14.00	13.70	none	150	12.50	180	none	none	none
2 - Sealed	14.15	13.70	14.40	150	12.50	180	60	120	28
3 - Sealed	14.30	13.70	14.60	150	12.50	180	60	120	28
4 - AGM/Flooded	14.40	13.70	15.10	150	12.50	210	120	180	28
5 - Flooded	14.60	13.50	15.30	180	12.50	210	120	180	28
6 - Flooded	14.70	13.50	15.40	180	12.50	210	180	240	28
7 - L-16	15.40	13.40	16.00	180	12.50	210	180	240	14

All Programs:

Battery Temperature Compensation
-5mV / °C / cell

Float Cancel Voltage
12.30V

Maximum Compensation Temperature
80 °C

Array High Voltage Disconnect
150V

Minimum Compensation Temperature
-40 °C

Array High Voltage Reconnect
145V

High Voltage Disconnect
Highest charging voltage available in the charging program + 0.5V (e.g. Equalization V + 0.5V)

High Voltage Reconnect
13.80V

Maximum Regulation Limit
disabled (default)

Battery Current Limit
current limit of controller (45A or 60A)

Float Timeout
60min