

ST Dual Bay CHGR Data Sheet

SoluThium
Powered by LiCore™ C

SPECIALITIES

- Temp-based charging current control
- SMBus & CANBus communication

Input 100-240 VAC, 47/63 Hz **Max Input Power** 158.4W

Output Voltage 8.4 / 12.6 / 16.8 VDC

Output Current ≤ 43°C: 1.6 / 3.2 / 4.8 A
≥ 45°C: 0.8 / 1.6 / 2.4 A

Protection Output Overcurrent, Output Overvoltage

Certifications IEC62368-1 / EMC



OUTPUT:

Charging Current per Slot Based on the Temperature of the Battery

Battery Configuration	Battery Capacity	Charging Voltage	Charging Current when battery temp ≤43°C	Charging Current when battery temp ≥ 45°C
4S1P	3.25Ah	16.8V	1.6A	0.8A
2S2P/3S2P/4S2P	6.5Ah	8.4V 12.6V 16.8V	3.2A	1.6A
2S3P	9.75Ah	8.4V	4.8A	2.4A
2S4P	13Ah	8.4V	4.8A	2.4A

SUPPORTED BATTERY MODELS

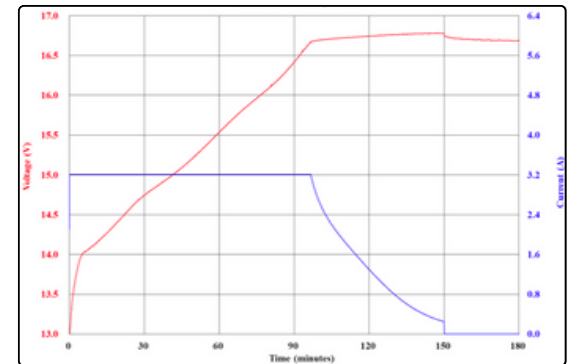
- ST 7.2V 6AH
- ST 7.2V 10AH
- ST 7.2V 13AH
- ST 10.8V 6AH
- ST 14.4V 3AH-AMP
- ST 14.4V 6AH

LED INDICATORS AND DESCRIPTION

LED	LED Indication	Description
1 LED per slot (Total: 2 LEDs)	Orange LED flashes 3 times, then turns off	Power on (AC Plugged in without battery)
	Green LED flashes continuously	Charging in progress
	Green LED is solid (ON)	Battery is fully charged
	Red LED flashes continuously	Charging Issue Detected • Communication failure • Over-voltage • Over-current • Over-temperature
Charger On/Off Switch LED	White LED is solid (ON)	Charger is powered on
	White LED is OFF	Charger is powered off

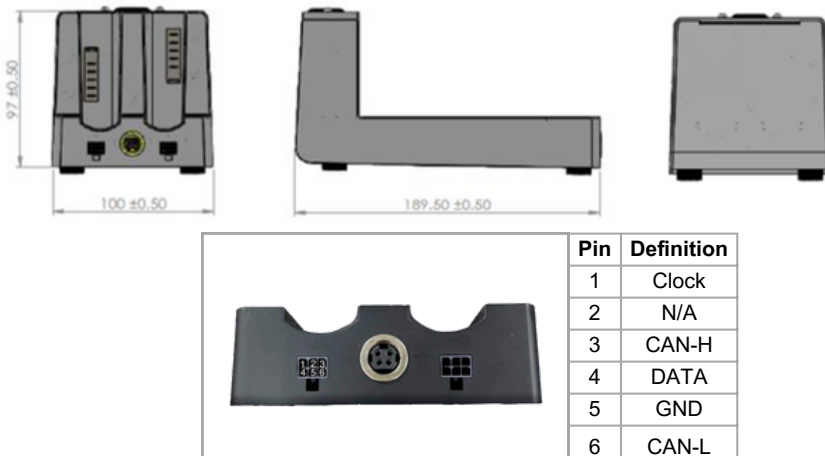
CHARGING CURVES

16.8V charging voltage

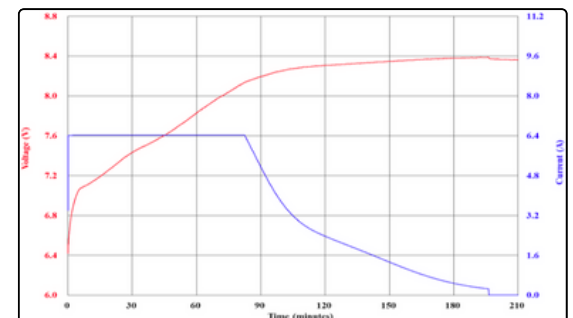


Charge Current: 3.2A
Charge Time: 2.5 hrs

MECHANICAL DESIGN



8.4V charging voltage



Charge Current: 6.4A
Charge Time: 3.3 hrs