# ST Dual Bay CHGR Data Sheet



**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

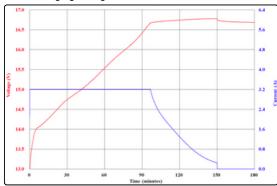
- ST 7.2V 6AH
- ST 7.2V 10AH
- ST 7.2V 13AH
- ST 10.8V 6AH
- ST 14.4V 3AH-AMP
- ST 14.4V 6AH

### 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	

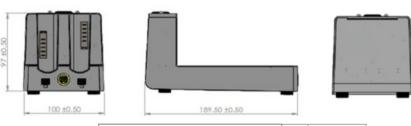
#### **CHARGING CURVES**

# 16.8V charging voltage



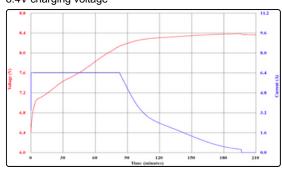
Charge Current: 3.2A Charge Time: 2.5 hrs

#### **MECHANICAL DESIGN**



	Pin	Definition
	1	Clock
	2	N/A
	3	CAN-H
	4	DATA
	5	GND
	6	CAN-L

#### 8.4V charging voltage



Charge Current: 6.4A Charge Time: 3.3 hrs

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