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# 24V, 8A Lead Acid Battery Charger



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#### **Features**

- RESNA compliant
- OVP, OTP, SCP
- USB Charger

- LED indicators charge state
- CEC
- GEL or AGM battery support

### **Applications**

- Power Wheelchairs
- Electric Motorcycle

Mobility Scooters

#### **Safety Approvals**

- UL1012 (LVD)
- CSA C22.2 No.107.2-01

• CE

#### **Mechanical Characteristics**

- Length: 257.3mm (10.13in)
- Width: 120.5mm (4.74in)

• Height: 210mm (8.27in)

#### **Output Specifications**

Model		DC Output Voltage	Charge Current	Ripple <sup>(1)</sup> pk-pk @ 25°C	Regulation	
					Line	Load
DA200U-250A		+5V	8A	100mV	±5%	

(1) The output is decoupled with 47uF parallel with 0.1uF capacitors. Measurements are made with a high impedance probe, 100MHz bandwidth, across the decoupling capacitors.

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#### DA200U-250A Characteristics

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Input:

**AC Input Voltage Rating** 

100 to 240VAC

**AC Input Voltage Range** 

90 to 264VAC

**AC Input Frequency** 

47 to 63Hz

**Input Current** 

2.5A(RMS) max for 115VAC 1.25A(RMS) max for 230VAC

Leakage Current

< 0.1mA maximum at 254VAC

**Inrush Current** 

<60A max at 230VAC

<30A max at 115VAC

(Cold start at ambient 25°C)

**Hold-up Time** 

16mS at input voltage of 230VAC/60Hz, output load 200W max

**Output:** 

**Efficiency** 

>87% average based on Level V Energy Star

**Over-Voltage Protection** 

32V trip point. Output will remain off until power is recycled.

**Over-Temperature Protection** 

Non-latching

**Short-Circuit Protection** 

The output can be shorted without damage

**Environmental:** 

Temperature

Operation 0°C to 40°C Non-operation -25°C to 70°C

Humidity 20% to 90% non-condensed

Emissions

FCC Class A

EN55022 Class A

**Immunity** 

EN50082-1

EN61000-4-2

EN61000-4-3 Level 2, Criteria A

EN61000-4-4 Level 2

EN61000-4-5 Level 3

EN61000-4-6 Level 2, Criteria A

EN61000-4-8

EN61000-4-11

EN61000-3-2 Harmonic Class A

EN12184

ISO7176-14 Wheelchairs

IEC 529-IPX1 (Drip proof)

General:

**Insulation Resistance** 

>7M Ohm minimum, 500VDC

Dielectric Withstand (Hi-pot) Test

Primary to secondary: 4242VDC for 1min 10mA

**Connector:** 

AC Input Connector (J1)

0711-2-PL4M20-A or equivalent

Output Connector (Main)

+24VDC (XLR connector): White, Pin 1(connected to

battery +)

RTN (XLR connector): Black, Pin 2, 3(connected to

battery -)

Output Connector (USB): GOLDCONN

Electronic USBAFDIP-109-H

CN401 (USB female type): pin 1 VBUS; pin 2 Data-;

pin 4 ground

LED indicator

Blue LED: charge on-off (blue LED not "on" when

connected to the battery without AC power)

4 Green LEDs(blinking green LEDs indicates AC power on):

1 illuminated green LED: 25% full charge

2 illuminated green LEDs: 50% full charge

3 illuminated green LEDs: 75% full charge

4 illuminated green LEDs: 100% full charge

# DA200U-250A Dimension Diagram: Unit mm

