



24V, 8A Lead Acid Battery Charger



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 ⁽¹⁾ 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.

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 -)

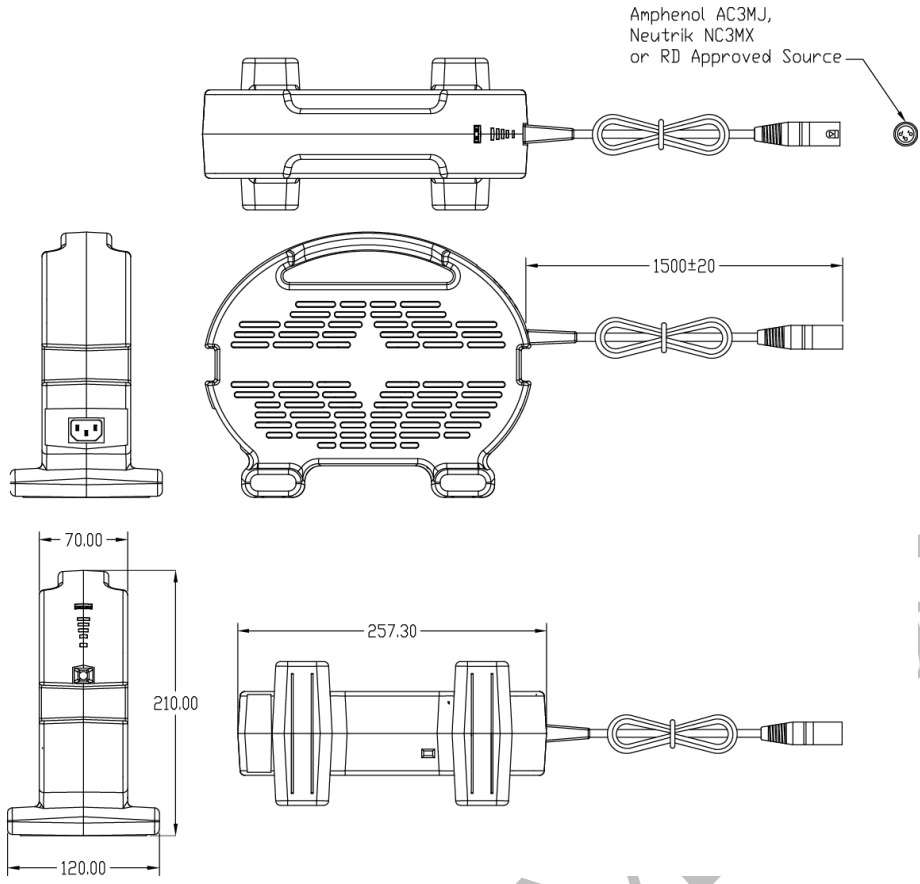
Output Connector (USB): GOLDCONN

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



PRELIM

ARY