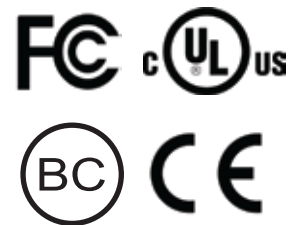


# 24V, 8A Lead Acid Battery Charger



## **Features**

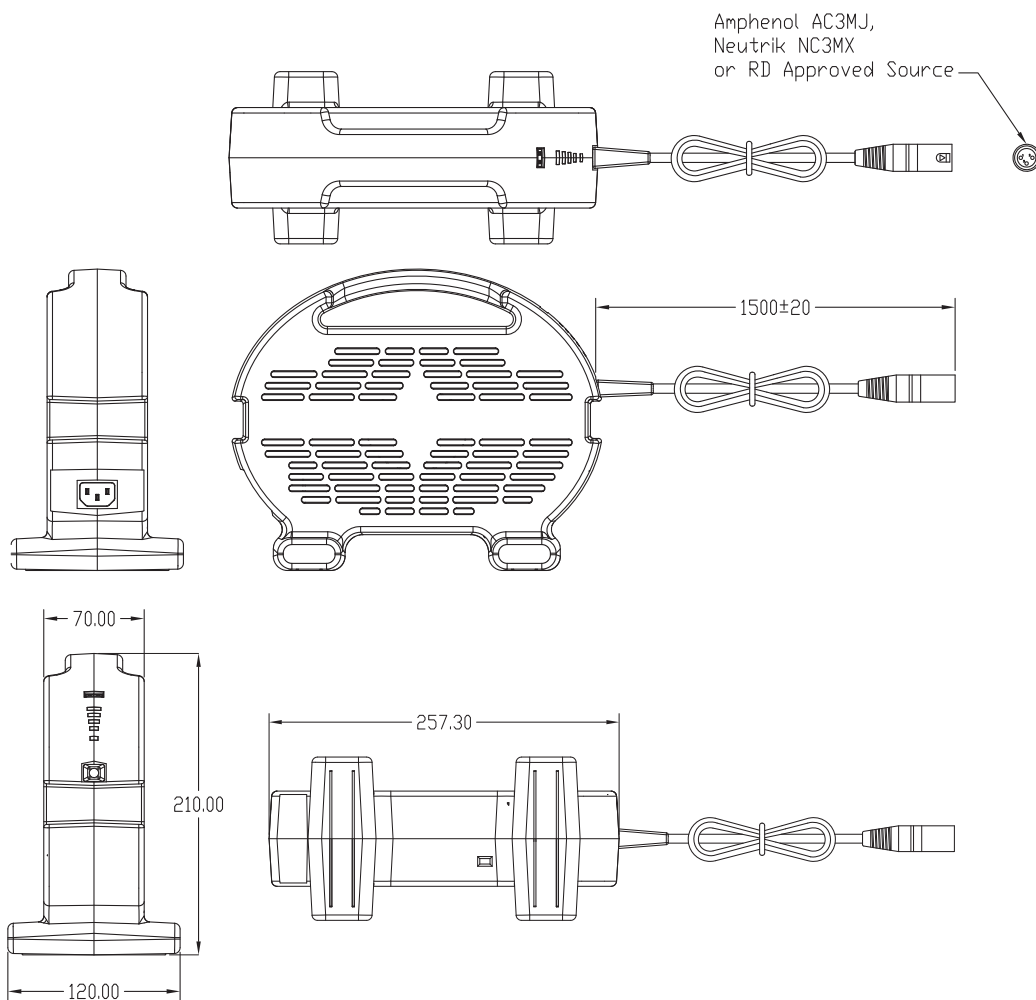
- *RESNA Compliant*
- *CEC Compliant*
- *LED Indicators Charge State*
- *OVP, OTP, SCP*
- *Dual-Mode Charger*
- *Charges GEL or AGM batteries*
- *Max 12hrs Charging Time*

## **Applications**

- *Mobility Scooters*
- *Power Wheelchairs*
- *Electric Motorcycle*

Model name		DA200U-250A-R
Input	Input Rating	100 to 240VAC
	Input Current	2.5A(RMS)max for 115VAC; 1.35A(RMS)max for 230VAC
	Frequency	47-63 Hz
	Power factor	>.95 from 60%-100% load for 115VAC; >.90 from 60%-100% load for 230VAC
	Leakage Current	<0.1mA max 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 200Wmax
Output	Output Voltage Vmain	24V
	Current Charge	8A
	Ripple	100mV pk-pk @25°C <sup>(1)</sup>
	Output Voltage USB	5V
	Current Charge	0.5A
	Efficiency	84% at >115VAC at 200W
	Over-Voltage Protection	32V trip point. Output will remain off until power is recycled
	Over-Temp. Protection	Non-latching
	Short-Circuit Protection	The output can be shorted without damage
	Reverse Polarity Protection	Shall produce no more than 100mA of current or any damage
Battery Over-Charge Protection	Charger time-out. No greater than 12hrs, for bulk/absorption charging	
Environmental	Temperature	Operating: -25°C to 50°C
		Non-Operating -25°C to 70°C
	Emissions	Humidity: 20% to 90% non-condensed
		Complies with FCC Part 15 Class B
		Complies with EN55032 Class B
		Complies with EN61000-3-2:2014
	Immunity	Complies with EN61000-3-3:2013
		EN61000-4-2:2008
		EN61000-4-3:2006+A1:2007+A2:2010
		EN61000-4-4:2012
		EN61000-4-5:2014
		EN61000-4-6:2013
		EN61000-4-8:2009
EN61000-4-11:2004		
Compliance	Power units other than class 2, UL 1012 Battery Chargers, CAN/CSA C22.2 No.107.2-01 IEC60335-2-29:2002(Fourth Edition) +A1:2004 +A2:2009 for use in conjunction with IEC60335-1:2010(Fifth Edition) + A1:2013	
General	Insulation Resistance	>7M Ohm minimum, 500VDC
	Hi-Pot Test	Primary to Secondary:4242VDC for 1min, 10mA
	AC Input Connector(J1)	IEC C14 inlet
	DC Output Cable	SJT 18AWG Black; 1500mm±50mm
	Output Connector(main)	+24VDC(XLR connector):White, Pin1(connected to battery +) RTN(XLR connector):Black, Pin 2, 3(connected to battery -)
	Output Connector(USB)	USB Type-A

Model name		DA200U-250A-R
General	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): <ul style="list-style-type: none"> <li>●○○○ 25% full charge</li> <li>●●○○ 50% full charge</li> <li>●●●○ 75% full charge</li> <li>●●●● 100% full charge</li> </ul>
Outline	L x W x H	257.3mm(10.13in) x 120mm(4.74in) x 210mm(8.27in)
	Weight	1.5kg(3.31lbs)



Notes:

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

**Supplier's Declaration of Conformity**  
**47 CFR § 2.1077 Compliance Information**

Phihong USA Corporation  
47800 Fremont Boulevard  
Fremont, CA 94538

NOTE: This model has/The models in this product series have been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications to equipment not expressly approved by PHIHONG could void the user's authority to operate the equipment.