

# Soneil International

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*Accuracy and Quality you can count on*

## Medical Standard Battery Chargers For WHEELCHAIR & SCOOTER APPLICATION

### 2403SRM-(24V -2A,1.5,1.0,0.5A), 2416SRM08-(24V-8A)

#### Features

- ▶ **No Fan**
- ▶ Will charge any kind of Lead Acid Battery Up to 80 Ah in 8 hrs. or less
- ▶ Latest switch mode technology
- ▶ Provided with low inhibit standard feature in 2403SRM
- ▶ Reverse Polarity protection
- ▶ High Reliability
- ▶ With EMI Filter
- ▶ Operational status LED indicate
- ▶ LED ladder in 2416SRM
- ▶ Small in size and low in weight
- ▶ Can be supplied with choice of connector (XLR, Amp, any other)

#### Environmental

- ▶ Operating temperature 0 to 50°C
- ▶ Storage temperature -20° to 70°C
- ▶ Relative Humidity 20%-90%
- ▶ Vibration Test: 1.0mm, 10 –25Hz for 15 minutes per cycle for each axis(X,Y,Z)

#### Electrical Specification

- ▶ Voltage: 110 V AC / 230 V AC for North America / Europe OR Universal
- ▶ Efficiency of 80% or higher
- ▶ Frequency 47 to 63 Hz

#### Approvals

- ▶ **60601-1-2 medical standards**
- ▶ UL, cUL, TUV, RoHS, BFP, CE,
- ▶ Meets requirements for wheelchair and scooter standards

**RANGE OF OTHER CHARGERS ARE AVAILABLE IN 12 / 24 / 36 / 48 VOLTS SYSTEMS FROM 0.5 A TO 120 A**

**ALSO LITHIUM BATTERY PACKS AND LITHIUM CHARGERS ARE AVAILABLE – STANDARD & CUSTOM**



**2416SRM08**

**Size:**  
W187 mm (7.4") x  
L142 mm (5.6") x  
H75 mm (3.0")



**2403SRM**

**Size:**  
W119 mm (4.7") x  
L74 mm (2.9") x  
H41 mm (1.6")



**2402SRM**

**Size:**  
W 94 mm (3.7") x  
L 47 mm (1.85") x  
H 51 mm (2.0")



(Replaceable Plugs)

#### Standard 24 V Models

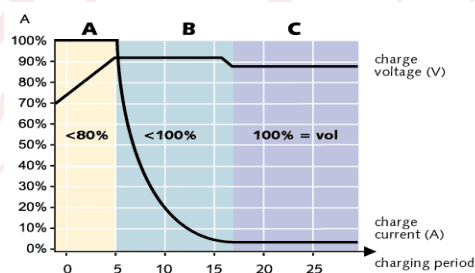
- 2410 S-04  
24 V / 5 A CC (Input 115 VAC)
- 2410 R-04  
24 V / 5 A CC (Input 230 V AC)

#### Other 24 V Models

- 2403 SR  
24 V / 0.5 to 2 Amp CC
- 2416 SR  
24 V / 8 A CC
- 2424 SR  
24 V / 12 A CC
- 2401 SRM  
24V 0.5 Amp (Universal Input)
- 2402 SRM  
24V 1.0 Amp (Universal Input)

*Lithium chargers also available for 4 to 24 cells pack, 0.5A to 100A*

#### Typical Charging Curve



Status	Mode	Current	Voltage	Indicate LED
Stage 1 Bulk Charge	CC Mode	Rated $\pm 10\%$ Current	Increasing up to cut-off	ORANGE Solid
Stage 2 Cell Equalization	CV Mode	Decreasing to 20% rated	Cut-off Volts $\pm 0.3$ V	ORANGE Solid
Stage 3 Float Charge	CV Mode	To Cover Loses	Float Volts $\pm 0.3$ V	GREEN Solid
Recharging Stage	CC Mode	Rated $\pm 10\%$ Current	Increasing	ORANGE Solid

Specifications are subject to change without prior notice



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