



(Optional)

- Optimal Three State Charging
- State of Charge/Amp/AC LEDs
- Low Standby Battery Drain
- Customizable Charge Algorithm
- Optional Control/Status Signals
- Optional Temp Compensation
- Vibration Resistant
- Reverse Polarity Protected
- Over Temperature Protected
- Over Current/Voltage Protected
- UL/CSA 1012 and 1564 Certified
- Full Two Year Warranty

## Description

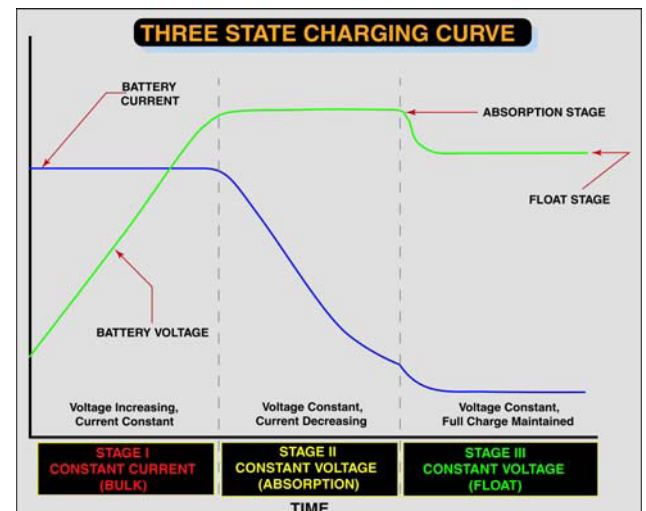
The RTIC2210-FC is a rugged, intelligent and sophisticated three state lead-acid battery charger. With a wide operating temperature range (-20C to 50C) and UL/CSA1012 and 1564 certification, this product is especially suited for high end industrial applications. The RTIC2210-FC is factory programmable to accommodate several charging algorithms

and an LED display to indicate status. The charger is controlled by an embedded microcontroller that contains software developed by and proprietary to Charge-tek. The RTIC2210-FC precisely controls charging voltage and current to insure a complete recharge every time. The charger may be left connected indefinitely to the battery, maintaining full charge at all times.

## Charging Specifications

PARAMETER	DESCRIPTION/CONDITIONS	MIN	NOM	MAX	UNITS
$V_{FSTERM}$	Fast charge termination voltage, 25C	29.2	29.4	29.7	VDC
$V_{FL}$	Float voltage, $I_{OUT} < 1.0$ A, 25 C	26.8	27.2	27.4	VDC
$I_{FS}$	Fast charge current, $V_{BATTERY} = 24V$	9.0	10.0	11.0	Amps
$I_{ABTERM}$	Absorption mode charge termination current, Transition from Fast to Absorption	2.5	3.0	3.5	Amps
$I_{FLTERM}$	Float charge termination current	1.2	1.5	1.8	Amps
$I_{SBY}$	Standby Current, AC Off			0.5	ma

**Charging Algorithm:** Supplies constant current to battery until  $V_{FSTERM}$ . Transition to Absorption mode follows and regulates battery voltage at  $V_{FSTERM}$  until current decreases to  $I_{ABTERM}$ . Float Mode follows and regulates battery voltage at  $V_{FL}$ .



# RTIC2210-FC Datasheet

## Input Specifications

PARAMETER	DESCRIPTION/CONDITIONS	MIN	NOM	MAX	UNITS
AC Voltage	47 - 63Hz	180	230	250	VAC
Input Current	180VAC, 29VDC Output		3.0		Amps

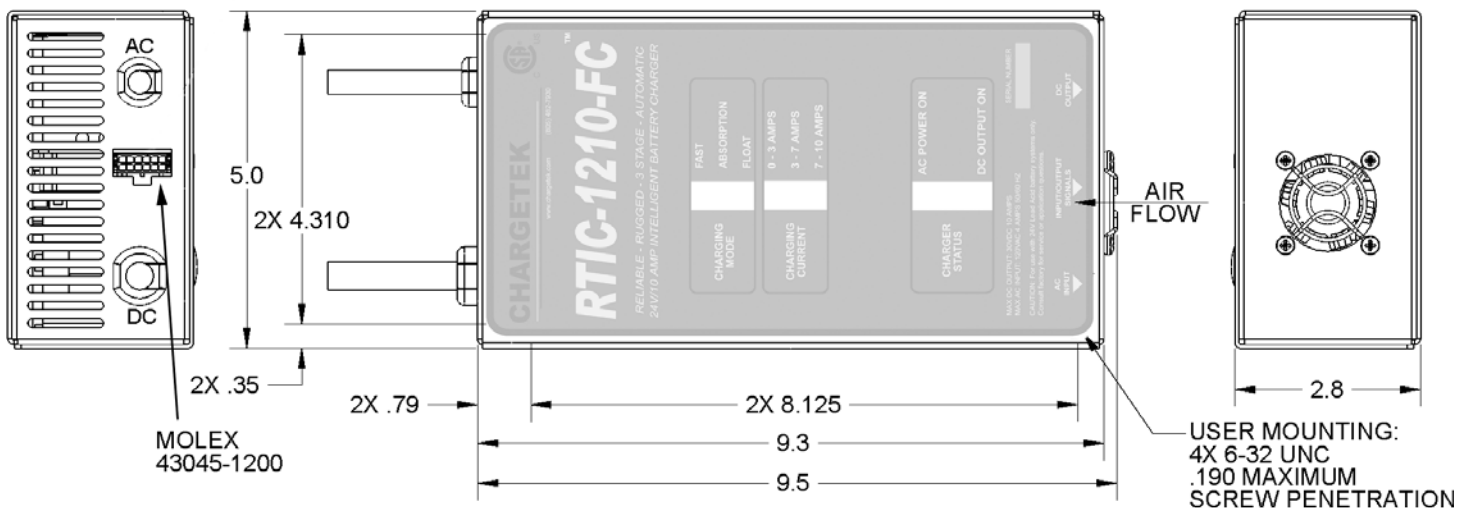
## Environmental Specifications

PARAMETER	DESCRIPTION/CONDITIONS
Storage Temperature	-40C - 80C
Operating Temperature	-20C - 50C
Relative Humidity	0 - 95C Relative Humidity (non-condensing)
Input to Output/Chassis Voltage Isolation	2KV (leakage current less than 1mA)
Output to Chassis Voltage Isolation	50V ( can be increased/ consult factory)

## LED Indicators

PARAMETER	RED	YELLOW	GREEN
State of Charge	Bulk	Absorption	Float
Charging Current in Amps	7 - 10	3- 7	0 - 3
Input AC Power			On
Battery Connected			On

## Outline and Mounting



PLEASE NOTE: Chargetek products are not authorized for use as components in life support systems, hazardous environments, nuclear control systems or other similar applications without the express written consent of the president of Chargetek, Inc. The appearance of products, including safety agency certifications pictured on labels, may change depending on the date manufactured. Specifications are subject to change without notice.