



(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

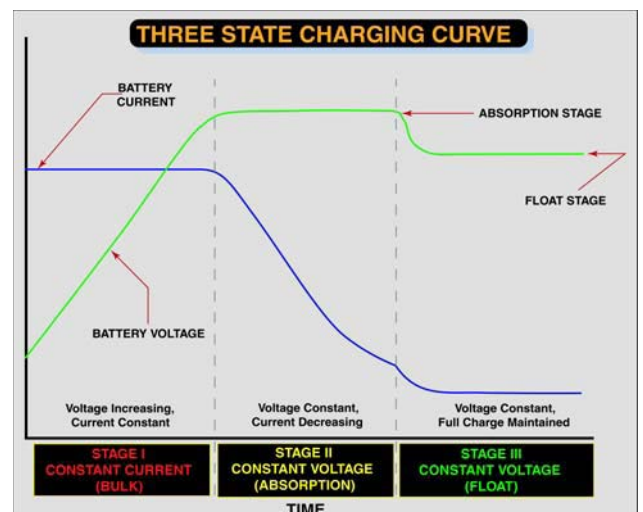
The RTIC1120-FC is a rugged, intelligent and sophisticated three state lead-acid battery charger. With a wide operating temperature range (-20C to 50C) and UL/CSA1012 and 1564 certification, this product is especially suited for high end industrial applications. The RTIC1120-FC is factory programmable 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 Chargetek. The RTIC1120-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	14.4	14.6	14.8	VDC
V_{FL}	Float voltage, $I_{OUT} < 1.0 A$, 25 C	13.4	13.6	13.7	VDC
I_{FS}	Fast charge current, $V_{BATTERY} = 12V$	20	21	22	Amps
I_{ABTERM}	Absorption mode charge termination current, Transition from Fast to Absorption	4.0	5.0	6.0	Amps
I_{FLTERM}	Float charge termination current	2.5	3.0	.35	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} .



RTIC1120-FC Datasheet

Input Specifications

PARAMETER	DESCRIPTION/CONDITIONS	MIN	NOM	MAX	UNITS
AC Voltage	47 - 63Hz	90	120	132	VAC
Input Current	90VAC, 15VDC Output		6.0		Amps

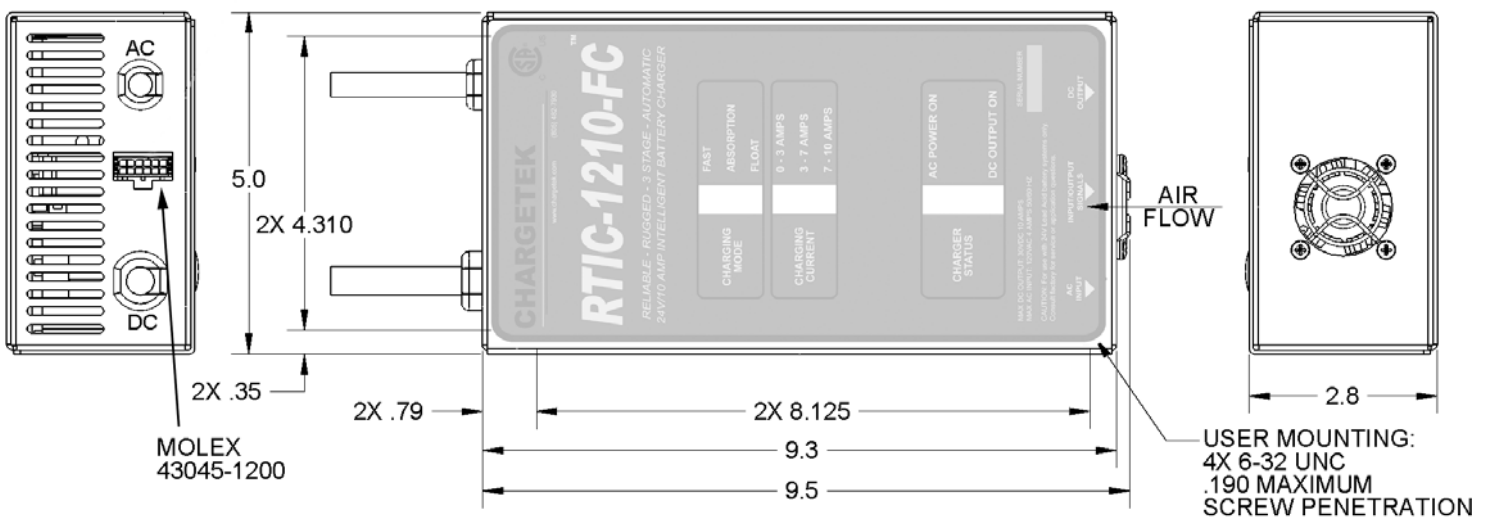
Environmental Specifications

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	14 - 20	7- 14	0 - 7
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.