



RTIC1307-WP Datasheet

- **Optimal three stage 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
- Waterproof / hermetically sealed
- UL/CSA 1236 certified
- Two year warranty

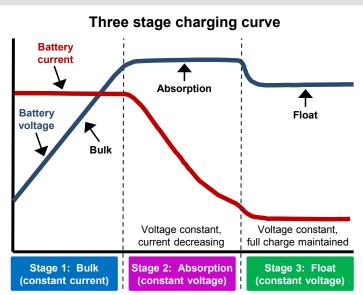
Description

The RTIC1307-WP is a rugged, waterproof and sophisticated three state lead-acid battery charger. With a wide operating temperature range (-20°C to 50°C) and UL/CSA1236 certification, this product is especially suited for high end industrial applications. The RTIC1307-WP is factory programmable to accommodate several charging algorithms and an LED display to indicate status. Optional relay signals and remote temperature compensation is also available upon request. The charger is controlled by an embedded microcontroller that contains software developed by and which is proprietary to Chargetek. The RTIC1307-WP precisely controls charging voltage and current to ensure 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	43.7	43.8	44.3	VDC
V _{FL}	Float voltage, I _{out} < 1.0 A, 25C	40.2	40.8	41.1	VDC
I _{FS}	Fast charge current, $V_{BATTERY} = 24V$	6.5	7.0	7.5	Amps
I _{ABTERM}	Absorption mode charge termination current, transition from fast to absorption	1.7	2.0	2.3	Amps
I _{FLTERM}	Float charge termination current	0.8	1.0	1.2	Amps
I _{SBY}	Standby current, AC off			0.5	ma

Charging algorithm: Supplies constant current to battery until V_{ESTERM}. Transition to absorption mode follows and regulates battery voltage at V_{ESTERM} until current decreases to I_{AB-} $_{\rm TERM.}$ Float mode follows and regulates battery voltage at V $_{\rm FL}$



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Input specifications

PARAMETER	DESCRIPTION / CONDITIONS	MIN	NOM	MAX	UNITS
AC voltage	47 - 63Hz	90	120	132	VAC
Input current	90VAC, 29VDC output		6.0		Amps

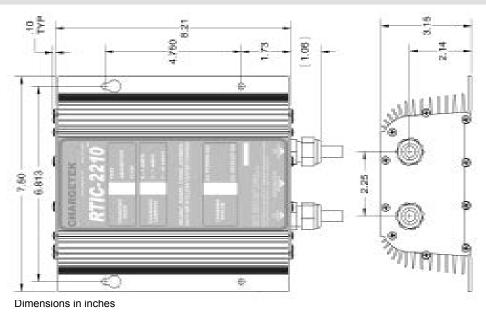
Environmental specifications

PARAMETER	DESCRIPTION / CONDITIONS
Storage temperature	-40°C - 80°C
Operating temperature	-20°C - 50°C
Relative humidity	0 - 95% 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	DESCRIPTION	RED	YELLOW	GREEN
State of charge	Indicates battery charging status	Bulk	Absorption	Float
Charging current in amps	Indicates battery charging current	4 - 7	2 - 4	0 - 2
Input AC power	Indicates AC power good			On
Battery connected	Indicates battery connected properly			On

Outline and mounting



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.

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