



RAILROAD HIGH FREQUENCY



Unit Shown: RHF2-20-12V-U1

The La Marche RHF2 series uses proven High Frequency charging technology and is developed specifically for the railroad market. It is typically used for signaling, highway crossings and motion detection systems where the battery is cycled frequently.

This filtered unit is designed and constructed to charge VRLA, Flooded Lead Acid and Nickel Cadmium batteries. The RHF2 comes equipped with features to meet AREMA requirements such as AAR style hardware, short circuit protection, reverse polarity protection, a vast DC Output range, vast temperature range and low ripple. Temperature compensated charging is standard to maximize the life of the battery. The unit is designed to achieve MTBF in excess of 100,000 hours

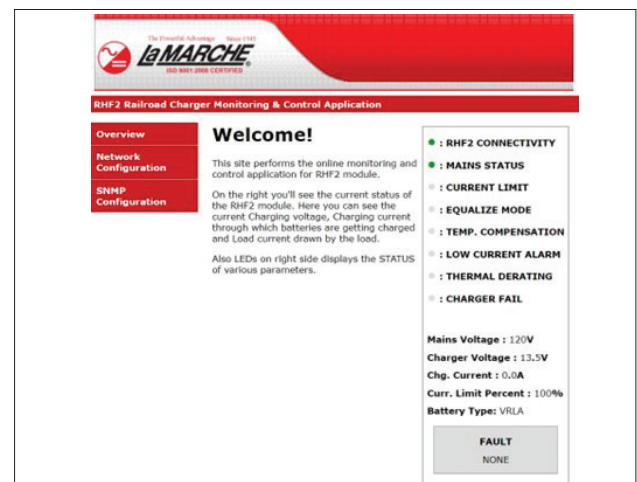
The RHF2 battery charger can be equipped with communication options such as SNMP or MODBUS which can be configured to report various parameters per end user requirements. The RHF2 battery charger also includes Form 'C' contacts as a standard feature which reports charger failure.

Standard Features

- Microprocessor Controlled High Frequency
- Wide AC Range (105-264 VAC, 45-65Hz)
- Complete Isolation from AC to DC
- OLED Digital Voltmeter & Ammeter
- Blocking Diode
- Adjustable Current Limit from 50% to 105%
- Suitable for Lead-Acid and Nicad
- Efficiency >85% Typical, >88% in ECO Mode
- Thermostatically Controlled Fan Assisted
- Power Factor Correction >.95 within 20-100% of Rated Load
- 1 Set of Form "C" Dry Type Alarm Contacts for Charger Fail Alarm
- Meets AREMA Specifications
- Meets ANSI/IEEE C62.41
- Temperature Compensated Charging
- AAR Hardware
- 2-Years Warranty

Optional Accessories

- 21X** SNMP TCP/IP Communications
- 551** VFD Display
- 11W** 11W External Temperature Probe 24 feet
- 11Y** 11Y External Temperature Probe 100 feet
- Data Logging to Monitor Battery Health
- Ground Detection Monitoring and Alarming
- Asset Management (Coming Soon)



Model Number	AC Input 100% (load)**		DC Output		Overall Dimensions W x D x H	Case No.	Net Weight*	
	Volts (Nominal)	Amps	Volts (Nominal)	Amps			lbs	kgs
RHF2-20-12V	120	2.6	12	20	14.06 x 5.08 x 12.55 in 357 x 129 x 318 mm	500	11	5.0
	240	1.4						
RHF2-40-12V	120	5.0	12	40	14.06 x 5.08 x 12.55 in 357 x 129 x 318 mm	500	11	5.0
	240	2.4						
RHF2-60-12V	120	7.5	12	60	14.06 x 8.76 x 12.55 in 357 x 222 x 318 mm	501	18	8.2
	240	3.6						
RHF2-20-24V	120	5.0	24	20	14.06 x 5.08 x 12.55 in 357 x 129 x 318 mm	500	11	5.0
	240	2.4						
RHF2-30-24V	120	7.5	24	30	14.06 x 5.08 x 12.55 in 357 x 129 x 318 mm	500	11	5.0
	240	3.6						
RHF2-50-24V	120	12.3	24	50	14.06 x 8.76 x 12.55 in 357 x 222 x 318 mm	501	18	8.2
	240	6.00						
RHF2-20-36V	120	3.9	36	20	14.06 x 5.08 x 12.55 in 357 x 129 x 318 mm	500	11	5.0
	240	1.9						
RHF2-6-130V	120	8.1	130	6	14.06 x 5.08 x 12.55 in 357 x 129 x 318 mm	500	11	5.0
	240	3.9						

*Weight does not include shipping packaging

Charger Specifications

- **AC Input**
105 VAC - 264 VAC
Single Phase 45Hz to 65 Hz
- **Line Regulation**
±10%
- **Efficiency**
>85%
- **Power Factor**
>0.95
- **Load Regulation**
<±0.5%
- **Input Protection**
Fuse with Surge and Transient Protection
- **Output Current Limit**
Factory set at 100%, Adjustable from 50-105%
- **Output Protection**
Fuse with Surge Protection
- **AC Over Voltage Protection**
- **Thermal Protection**
- **Fan Assisted at high Ambient Temperature**
- **Monitoring**
OLED DC Output Digital Voltmeter and Ammeter (1%)
- **Adjustable Voltage Range**

Lead Acid/ VRLA: 12V	10.5V - 14.1V (Float) to 14.5V (Equalize)
Lead Acid/ VRLA: 24V	21.0V - 28.2V (Float) to 29.0V (Equalize)
NiCad 12V	10.5V - 16.0V (Float) to 17.6V (Equalize)
NiCad 24V	21.0V - 32.0V (Float) to 33.0V (Equalize)

- **Alarms**
Charger Failure Form 'C'
- **LED Indicators**
Current Limit
AC On
Charger Fail
- **Environmental**
Operating: -40° to 158°F (-40° to 70°C) (Derated up to 70°)
Storage: -40° to 85°C (-40° to 185°F)
Relative Humidity: 0 to 95% Non Condensing
- **Mounting**
Shelf and Wall Mounting
- **Cable Entry**
Top
- **Finish**
Powder Coat Finish (RAL 7032)
- **Standards**
Meets AREMA Specifications
Meets ANSI/IEEE C62.41
- **Optional**
SNMP TCP/IP Communications
VFD Display
External Temperature Probe (24ft or 100ft)
Data Logging to Monitor Battery Health
Ground Detection Monitoring and Alarming
Asset Management (Coming Soon)

Model Number Nomenclature

