






HDM's Ion-X Battery Charger incorporates a patented energy conversion technology that rapidly charges the battery while extending battery life. Utilizing an intelligent microprocessor, the charger allows a high rate of charge to the battery without overheating the battery, thereby significantly reducing charge time. The Ion-X Adaptive Battery Charger prevents loss of electrolyte, gassing, sulfate build-up on battery plates and over-charging, all of which contribute to longer, healthier battery life.



ELECTRICAL	3-STAGE WITH TEMPERATURE DERATED CHARGE FOR AGM	
	CHARGE METHOD	BULK: MAXIMUM CHARGING CURRENT TO BATTERY. DURATION DEPENDS ON AHR RATING. ABSORPTION: CONSTANT ABSORPTION VOLTAGE TO BATTERY. DURATION DEPENDS ON AHR RATING. FLOAT: CONSTANT FLOAT VOLTAGE WITH LOAD CURRENT ON DEMAND.
ELECTRICAL	AC INPUT VOLTAGE	115VAC
	AC INPUT RANGE	100 ~ 130VAC
	AC INPUT FREQUENCY	54 ~ 66Hz
	AC INPUT CURRENT	3.7A RMS (MAXIMUM) / 2.8A RMS (NOMINAL)
	DC CHARGE VOLTAGE RANGE	18 ~ 28.6VDC
	DC FLOAT VOLTAGE	27VDC
	DC CHARGE CURRENT	10ADC
	DC CHARGE CURRENT LIMIT	10ADC
	DC OVER-VOLTAGE PROTECTION	32VDC ¹
	DC OUTPUT FUSE	20A
MECH	EFFICIENCY	85% TYP
	TEMPERATURE DERATED CHARGE	T _{THERMISTOR} ≥ +75(±15%)°C
MECH	DIMENSIONS	10 x 8.7 x 2.7" (LxWxH)
	WEIGHT	8 LBS
	CONSTRUCTION	EXTRUDED ALUMINUM WITH BLACK ANODIZED COATING
INTERF	AC INPUT	48" 18AWG/3C WITH NEMA 5-15P PLUG
	DC OUTPUT	48" 12AWG PAIR WITH 3/8 STUD RING TERMINALS
	REMOTE	N/A
	DATA I/O PORT	N/A
ENVIRON	COOLING	NATURAL CONVECTION
	OPERATING TEMPERATURE	-40 ~ +55°C
	STORAGE TEMPERATURE	-40 ~ +85°C
	MTBF PREDICTION	TBD ²

STANDARD FEATURES

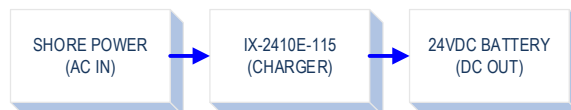
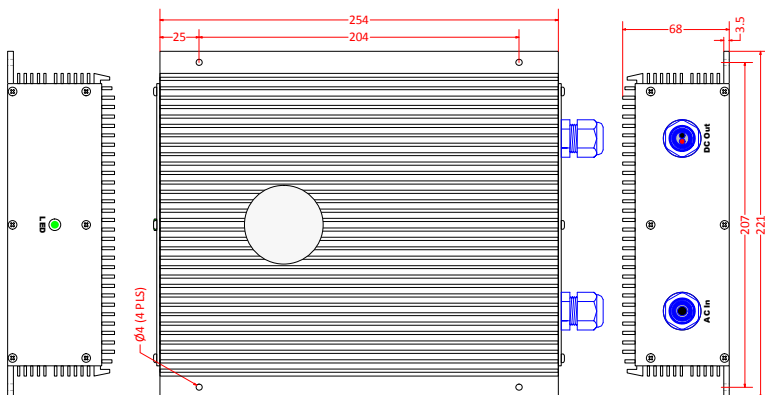
- ♦ 24VDC/10ADC ISOLATED CHARGER
- ♦ 3-STAGE CHARGING METHOD
- ♦ 1260VAC ISOLATION
- ♦ AUTO-RESTART MODE
- ♦ CURRENT LIMITING
- ♦ OVERLOAD PROTECTION
- ♦ OVER-VOLTAGE PROTECTION
- ♦ SHORT CIRCUIT PROTECTION
- ♦ TEMPERATURE DERATED CHARGE
- ♦ AUTO MAINTENANCE MODE
- ♦ BATTERY STATUS INDICATOR
- ♦ CORROSION-PROOF HARDWARE
- ♦ HARD WIRING OPTION

LED STATUS INDICATOR		CHARGE STATUS
	SOLID GREEN	100%
	FLASHING GREEN	80% ~ 100%
	FLASHING ORANGE	50% ~ 80%
	FLASHING RED	LESS THAN 50%
	BLANK	NO AC IN

Specifications typical at 25°C unless otherwise stated and are subject to change without notice.

¹ IX-2410E-115 charger will auto-recover and restart when parameters are within operating limits and LED will return to blink Green.

² Calculated per Bellcore TR-NWT-000332 method. Products are covered by 1 year limited warranty.



Connection Block Diagram for IX-2410E-115

MODEL	CHARGE VOLTAGE / CURRENT	DESCRIPTION
IX-2410E-115	24VDC / 10ADC	ENCAPSULATED CHARGER

ADD SUFFIX AFTER MODEL NAME FOR OPTIONAL FEATURES AND ACCESSORIES.

All dimensions in millimeters unless otherwise specified.