



HGS (INDIA) LIMITED

Battery Charger (HGS-DBC-240-13.5)

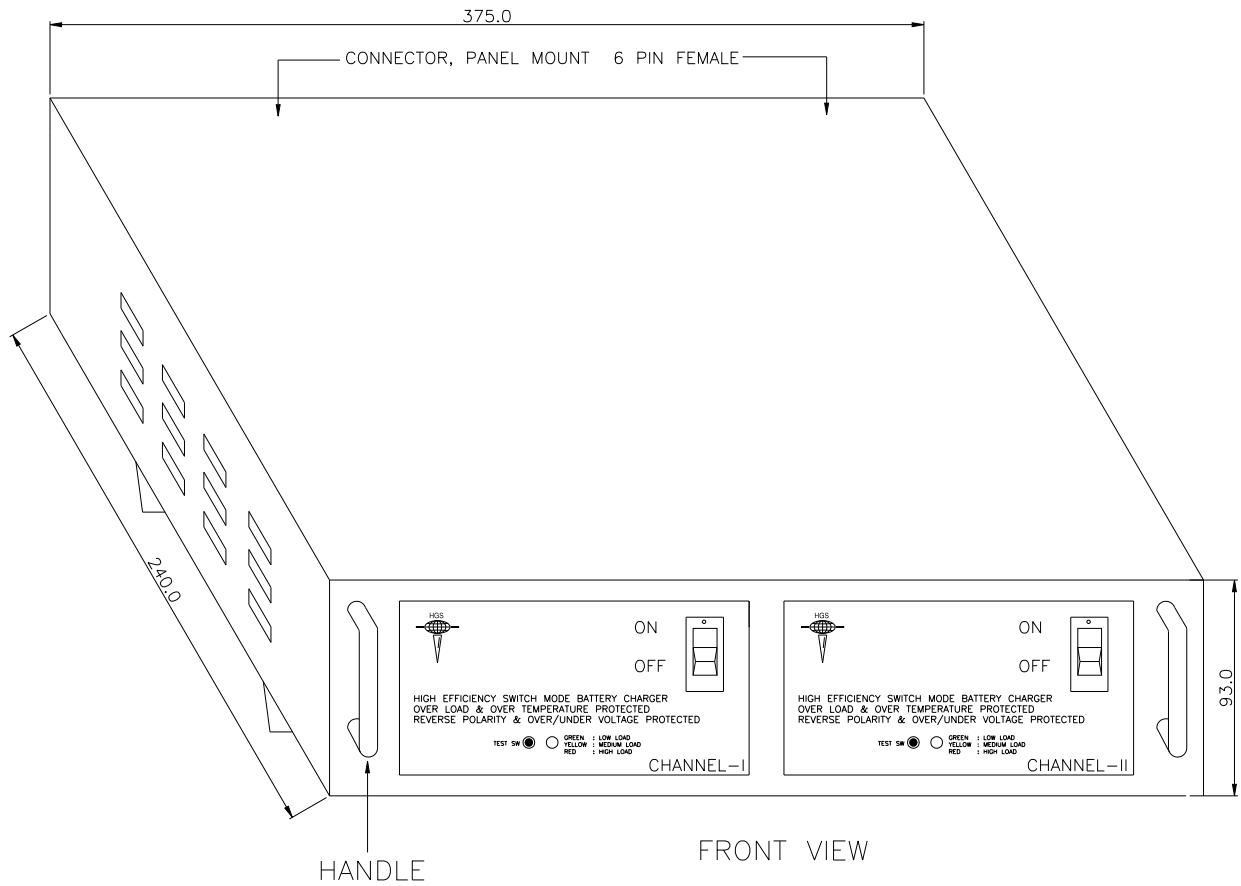


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SCHEMATIC



FRONT VIEW
BATTERY CHARGER FOR 2 CHANNEL

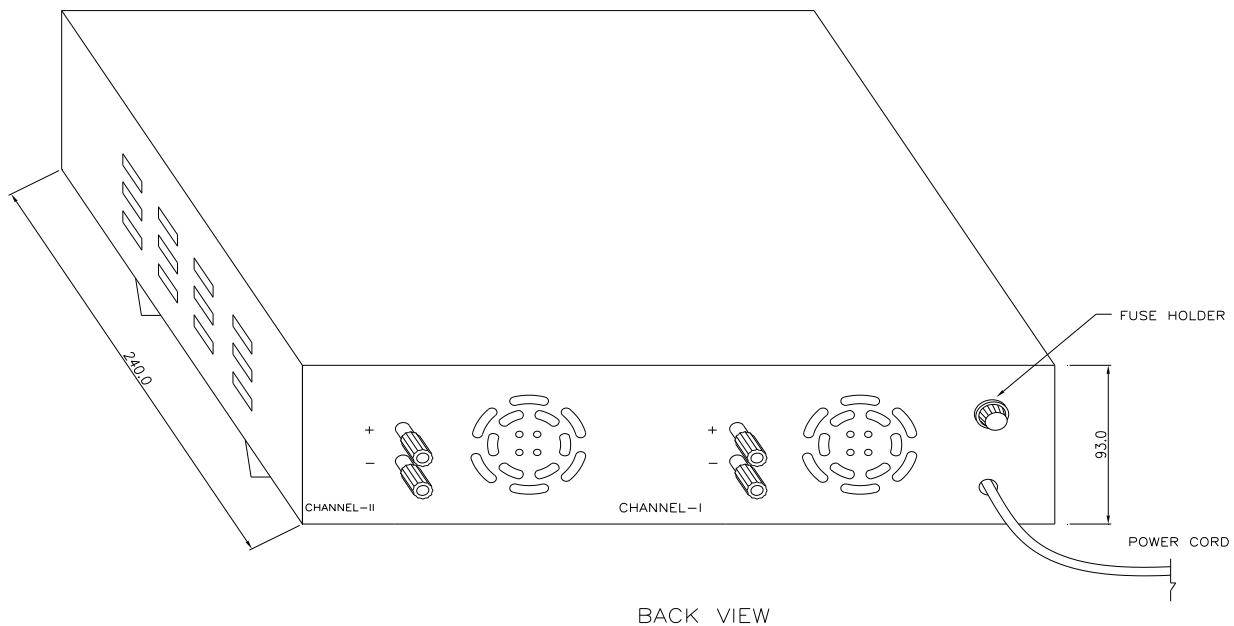
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CAPABILITIES & FEATURES

Battery Charger (HGS-DBC-240-13.5)

- SMPS based dual channel battery charger for charging two sealed, maintenance free batteries at the same time
- Charger suitable for charging both types of batteries - 42 AH and 75 AH
- Input: 176-264 V AC, 1 phase
- Output: 13.5 V DC, 0-16 A (dual channel)
- Protections: Short circuit / Over load / Over voltage / Over temperature
- Battery Under / Over voltage and Polarity protection
- Air cooling by built-in DC fans. Fans operate only when temperature rises
- Fixed switching frequency at 25KHz
- 3 colour LED loading indicator
- Each channel terminated with screw type terminals. (Panel mount 6-pin Dynacon output connectors compatible with ION's BBU connectors also available on request)
- Automatically adjusts charging current based on battery type and condition



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DETAILED SPECIFICATIONS

PARAMETERS	SPECIFICATIONS	
OUTPUT	DC VOLTAGE (PER CHANNEL)	13.5V
	RATED CURRENT (PER CHANNEL)	16A max.
	CURRENT RANGE (PER CHANNEL)	0-16A
	RATED POWER	432W
	RIPPLE & NOISE (max.)	120mVp-p
	VOLTAGE ADJ. RANGE	12-15V
	VOLTAGE TOLERANCE	+/-2.0%
	LINE REGULATION	+/-1.0%
	LOAD REGULATION	+/-2.0%
	SETUP, RISE TIME	200ms, 100ms at full load
	HOLD TIME (Typ.)	30ms at full load
	CONNECTORS	Screw type terminals. Panel mount 6-pin Dynacon connector compatible with ION's BBU connectors also available on request.
	INPUT	VOLTAGE RANGE
FREQUENCY RANGE		47-63Hz
EFFICIENCY (Typ.)		81%
AC CURRENT (Typ.)		5A/230VAC
INRUSH CURRENT (Typ.)		COLD START 40A (per channel)
LEAKAGE CURRENT		<3.5mA/240VAC (per channel)
PROTECTION	OVER LOAD	105-135% rated output power Protection type : Fold back current limiting, recovers automatically after fault condition is removed
	OVER VOLTAGE	15.5-18.2V Protection type : Fold back current limiting, recovers automatically after fault condition is removed
	OVER TEMPERATURE	RTH5 ≥ 85 Deg C. Detect on heatsink of Q1,Q2 power transistor Protection type : Shut down o/p voltage, recovers automatically after temperature goes down
	BATTERY	Battery polarity, battery under voltage, battery over voltage protection
FUNCTION	FAN CONTROL	RTH5 ≥ 60 Deg Centigrade FAN ON, ≤ 50 Deg Centigrade FAN OFF
ENVIRONMENT	WORKING TEMP.	-10 to +60 Deg C
	WORKING HUMIDITY	20-90% RH non-condensing
	STORAGE TEMP., HUMIDITY	-20 to +85 Deg C., 10-95% RH
	VIBRATION	10-500 Hz, 2G 10min./1cycle, 60min. Each along X,Y,Z axes
SAFETY	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC
OTHERS	MTBF	200.6K hrs min. MIL-HDBK-217F(25 Deg C.)
	ENCLOSURE	Epoxy coated sheet metal enclosure with handles
	DIMENSION	375*240*93MM (L*W*H) approx.
	WEIGHT	7 kg approx.

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