SUNNY
LIGHT FOR LIFE

Central Battery Systems - INV 220V Series

Model : INV220-1500

Product Overview

Central Battery Systems by Inverter 220V Series is used to detect any abnormalities of the main power distribution system. In case of error or emergency, the unit will convert the battery voltage stored in the chemical form into the electric power and supply it to the inverter where the DC voltage from the battery will be converted into the AC voltage at 220VAC 50Hz to turn on the emergency light. On the other hand, when the main power distribution system resumes its normal operation, the unit will stop supplying the backup power and start recharging the battery for later use in case of another error or for the emergency light test.

Technical Specifications

Mode of Operation	Maintained and Non-Maintained
Operating Temperature	10-50°C
Input Voltage	220-240 VAC / 50Hz
Output Voltage	220 VAC / 50Hz ± 2%
Wave Form	Pure Sine Wave
Load Capacity	1500 W @ P.F = 1 1200 W @ P.F = 0.8
Battery Type / Capacity	Sealed Lead-Acid Maintained Free 48V-130Ah (12V-130Ah x 4)
Protection Features	- AC. Input & Output Circuit Breaker - DC. Circuit Breaker - AC. Input Under Voltage Protection - Battery Low Voltage Cut-Off
Testing Systems	Auto Test
Charging Method	3 Steps Charger System
Charging Period	≤ 24 Hrs
Backup Time	2.0 Hrs
Housing	Electro-galvanized steel sheet 1 mm. thick with epoxy powder coating
Dimensions (L x W x H)	620 x 400 x 1200 mm
Weight	202.00 Kg
Degree of Protection	IP20
Mounting	Floor Standing
Standards / Compliance	- TIS.1955-2551 - ISO9001 - CE

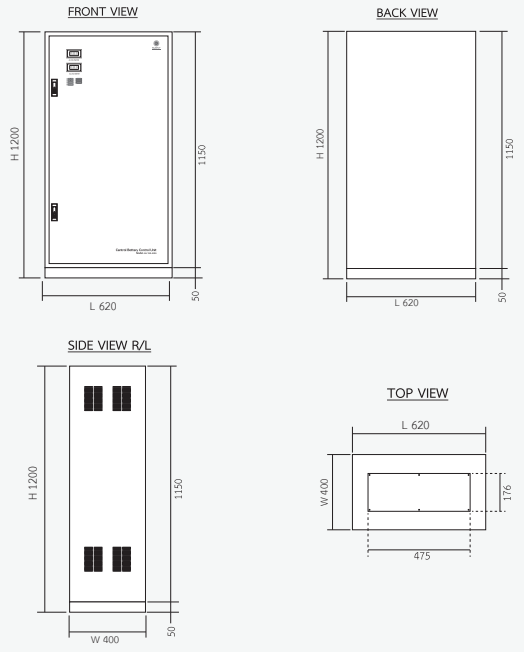
Features

- Operate for 2.0 hours on backup time
- Battery charge automatically with 3 Step Charger Constant Voltage, Limit Current and Flip-Flop Charger
- Battery overcharge protection circuit prevents overcharge which is the cause of battery swelling
- Battery discharge protection circuit prolongs the battery life
- Under voltage protection circuit allows the unit to automatically activate the emergency light in case any fault occurs in the main power distribution system or in case of power failure (140-160 VAC)
- Automatically enabling a 30 minutes test every 30 days
- The system notifies the device status through audible signals with Battery Sound Indicator.
- The system alerts each time it automatically tests the battery (Auto Test) and detects a backup power of less than 30 minutes (Battery Fail).
- Charging Fail notification for battery charging issues.

Indicators

AC.VOLTMETER	▶	Indicating the input and output voltege
DC.VOLTMETER	▶	Indicating the battery voltege
LED **AC.Input**	▶	Indicating the status of the input voltege of 220-240 VAC
LED **DC.Input**	▶	Indicating the status of the battery power into the device
LED **Operate**	▶	Indicating the operation status of the inverter unit
LED **Testing**	▶	Indicating automatic battery discharge status
LED **Charging**	▶	Indicating charging status
LED **Battery Fail**	▶	Indicating the failure status of the battery
LED **Charge Fail**	▶	Indicating the failure statut of the battery charging

Dimensions (mm)



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