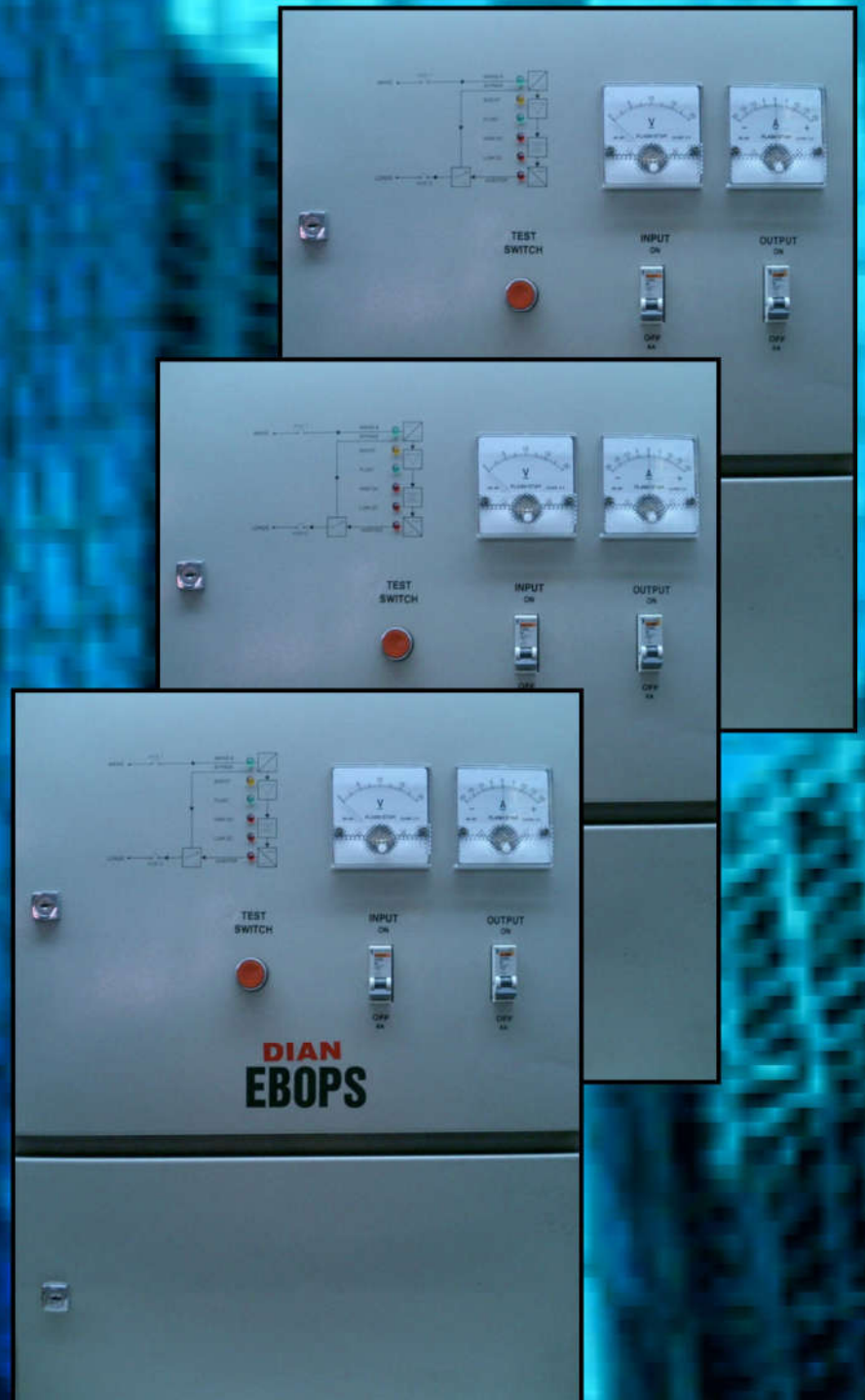




Power failure? Don't panic !

DIAN

EMERGENCY BATTERY OPERATED POWER SUPPLY (EBOPS)



OPERATION AND MAINTENANCE MANUAL

I/ GENERAL

THE EMERGENCY BATTERY OPERATED POWER SUPPLY (EBOPS) is specially designed for Lighting and Ventilation of the passenger lift in the event of power failure.

The EBOPS is a complete,enclosed unit assembly arranged for permanent connection consisting of a rechargeable battery, a battery charging facility and an inverter.It enables the batteries to be charged through the rectifier and at the same time provide supply to the loads during normal condition.The battery will restore its energy in the from of DC current to the inverter and inverter to an AC supply to loads when AC Mains supply failed.

II/ TECHNICAL SPECIFICATION

MODEL : AN19-12

- 12V system**
- 230V 50Hz 1P**
- Motor-roomless EBOPS**

1. CHARGER

Input Voltage	230VAC $\pm$ 10% ,Single Phase
Frequency	50Hz
Charging Method	Constant Voltage,Current limiting
Charging Current	3.5A (for Battery 12V – 33AH)
Float Charging Voltage	13.5 – 13.8V
Output Ripple	Less than 0.3%
Meter	Charging Current,Battery Voltage
Protection	Input MCB

2. INVERTER

Output Voltage	230VAC $\pm$ 6%
Frequency	50Hz $\pm$ 1%
Discharging Current	Max 13.5A
Wave Form	Modified Sine Wave
Overshoot	Less than 6% at rated resistive load
Meter	Discharging Current & Voltage
Rate load	100W
Backup Duration	Not less than 2 hours
Protection	Output MCB
	Battery low voltage auto cut-off
	Battery high voltage auto cut-off

3. PHYSICAL

Led Indicator	Mains ON,Inverter ON,Low DC,High DC
Ambient Temperature	40°C Max
Humidity	0 – 90% non – condensing
Dimension	600(H) x 400(H) x 180(D)mm
Weight with Battery	32Kg

4. BATTERY

Nominal Voltage	12V
Type & Capacitor	Sealed Lead Acid Maintenance Free 12V – 33AH
Brand	LEOCH,MARSTECH

III/ OPERATION AND MAINTENANCE INSTRUCTION

- 1. Check all external wiring are correctly and properly connected to the respective terminals.**
- 2. Check and ensure that the mains supply and battery voltage are the same as the system rating.**
- 3. Switch on the AC supply (Input MCB) and Switch on the Maintenance Switch, The Green LED on the control panel will light up indicating the mains supply is present.**
- 4. The charging current and voltage will be shown on Ammeter and Voltmeter respectively on the control panel.**
- 5. When the batteries is fully charged ,the charging current should not exceed 0.5 Amp and Mains light should light up.**
- 6. Switch off AC supply (Input MCB) ,the Red LED will light up if the Inverter is in operation. It is recommended to test the Inverter with the loads present.**
- 7. Ensure that the Batteries Terminals are tightened properly .The batteries must be kept dry and clean.**

PARTS LIST

1.Main Transformer

Marking : ” DIAN “

Pri :N M L P S

Sec :A B O B A

2. Bridge Rectifier (SID)

Marking : MB 3506

3. SCR

Marking : BT152

4. Power and Control Board

Marking : AN12-01

5. H R C Fuse (HF)

Marking : DIXSEN

20Amps

6. LED Display Board

Marking : AN12-03

7. Terminal Block (TB) – 12Ways

Marking : TEND TB25-12

600V 25A

8.Heatsink H120xW180xD35

9. Test Switch (non)

10. Output mcb (mcb2)

Marking : MERLIN GERIN

Model number :Multi 9 C60N

11.MaintenanceSwitch(SW)

Marking : MEGAMAN

CB25A

12. Voltmeter (V)

Marking :Flash Star SD -80

0-20V

Class 2.5

13.Ammeter (A)

Marking : Flash Star SD -80

+/- 20A

Class 2.5

14.Input mcb (mcb1)

Marking : MERLIN GERIN

Model number :Multi 9 C60N

15.Lock&key

Marking :NYLEX

Model number:

16.Metal cubicle

Powder Coating

H600xW400xD180

