





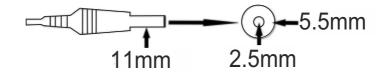




MODEL No.: MRE01

(12VDC @ 1A Wall Mounted Adapter)





MODEL No.:MRE01 (12VDC / 1A, 12W Adapter)

1.0 SPECIFICATIONS

1.1. GENERAL

1.1.1. SCOPE : This specification defines the performance characteristics of

Switching power Supply

1.2. INPUT CHARACTERISTICS

1.2.1. RATED INPUT VOLTAGE: 100VAC - 275VAC.

1.2.2. OPERATING INPUT RANGE: Minimum:100VAC, Nominal: 230VAC & Maximum: 275VAC.

1.2.3. INPUT FREQUENCY : 50Hz to 60Hz

1.2.4. INPUT CURRENT : < 800mArms @ 100VAC

1.2.5. EFFICIENCY : > 75% at all load conditions with completeAC input

Operating Voltage (100VAC - 300VAC).

1.2.6. INRUSH CURRENT : < 30A Peak @ 230VAC Cold start at 25 Deg.

1.2.7. NO LOAD POWER : < 500mWat 230VAC input.

1.3. OUTPUT CHARACTERISTICS :

1.3.1. OUTPUT VOLTAGE : 12VDC

1.3.2. OUTPUT CURRENT : Minimum: 0A (No Load), Maximum 1A.

1.3.3. LINE & LOAD REGULATION : 11.40 - 12.60VDC.

1.3.4. RIPPLE : < 120mV 1.3.5. NOISE : < 240mV

(measured with 0.1µF ceramic disc & 10µF EL Capacitor

acrossthe output terminals).

1.3.6. OUTPUT PEAK CURRENT : 1.5A Max.

 1.3.7. HOLD UPTIME
 : > 10 mSec. at 100VAC Input.

 1.3.8. TURN-ON DELAY
 : < 3.0 Sec. at 230VAC input.</td>

 1.3.9. RISETIME
 : < 10 mSec. at 230VAC input.</td>

 1.3.10 FALL TIME
 : < 10 mSec. at 230VAC input.</td>

1.3.11. OUTPUT POWER LIMIT : 12.0W.

1.3.12. OUTPUT OVERSHOOT : < 10% of output voltage at all the conditions of input voltage.

1.4. PROTECTIONS

1.4.1. OUTPUT OVER LOAD / : The power supply is protected against over load & short circuit.

SHORT CIRCUIT PROTECTION During over load & short ckt., the powersupply will go to hickup mode and resumes to normal operation on removal

of fault condition. There by protecting the equipment connected

to the power supply output from damages.

1.4.2. INPUT OVER VOLTAGE

PROTECTION

The power supply is withstand upto 320VAC, without Interrupting

the output voltage.

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1.4.3. OVERTEMPERATURE

PROTECTION

The Power Supply is protected against the over laod, during the over load the if PWM controller temperature exceeds **140 deg**, the unit will go into ON/OFF Mode and recover to normal

operation when the temperature reduces.

1.5.0. ENVIRONMENT

1.5.1. TEMPERATURE : Operation: 0°C to + 40°C

Storage: -15°C to +70°C ambient.

1.5.2. HUMIDITY : Operation: 10% RH to 90% RH non-condensing.

Storage: 5% RH to 95% RH non-condensing.

1.5.3. VIBRATION TEST : The unit shall withstand vibration test (on power OFF

condition) at frequency of 10 to 300Hz and acceleration 1g

for 45min on each axis X,Y and Z.

1.5.4. BUMP TEST : The unit shall with stand 1000 Bumps with acceleration 40g

under packing condition

1.5.5. FREE FALL TEST : The unit shall with stand free fall from a height of 1mtron the

hardwood with the thickness of 20mm in accordance with

IS9000 (Part 7/Sec4) total no.of falls shall 8

1.5.6. DRY HEAT TEST : The unit shall with stand 55°C for 16Hr in power OFF condition.

1.5.7. COLD TEST : The unit shall with stand in unpacked condition with power

off shall be subjected cold test of severity of 10°C for 2Hrs. carried out in accordance with IS9000(part-2,sec.4). The duration of recovery shall be 1 to 2 Hrs. To avoid condenstion, equipment to be brought to ambient

Temperature in controlled environment.

1.5.8. BURN-IN TEST : Burn in test as per IS14886:2000,sec.10.2.7 The duration of

Test 40°C for 48Hrs. in power ON condition.

1.6.0. PRODUCT SAFETY AS PER IEC60950-1:

1.6.1. DI - ELECTRIC VOLTAGE

WITHSTAND TEST (Hi-Pot)

3.0KVrms, 50Hz for 60 Sec. (trip current set at 5mA). Between

Shorted INPUTand Shorted OUTPUT Terminals. As per

IEC 60950, 5.2.2 Test Procedure. And 5 Sec for Production.

1.6.2. INSULATION RESISTANCE : When tested with a 500VDC Megger I.R should be >50M Ohms

Between Shorted INPUT and Shorted OUTPUT Terminals.

1.6.3 EARTH LEAKAGE CURRENT: The leakage current shall be < 0.25mA for Class II equipment

when the power supply is operated at 265VAC input voltage.

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1.7.0 RELIABILITY & QUALITY

1.7.1 COMPONENTDERATING : All semiconductors junction temperature shall not exceed the

FACTORS manufacture's maximum thermal rating.

1.7.2 BURN-IN : The power supply shall be performed up to 48 Hours burn in at

40°C at full load on output and nominal input voltage of

230VAC. No obnormal functioning shall occure.

1.7.3 MTBF : > 50,000 hours at full load and 25°C ambient conditions.

1.8.0 TERMINATIONS :

1.8.1. AC INPUT : Through an 2-Pin Integrated Plug as per the standard

1.8.2. DC OUTPUT : Through a 22Awg, 1.5 mtr length

with 2.5/5.5mm connector .

1.9.0 ENCLOSURE

1.9.1. MATERIAL : ABS FR Plastic (UL94V -0).

1.9.2. DIMENSIONS : L = 70.0 mm. W = 48.0 mm. H = 55.0 mm.

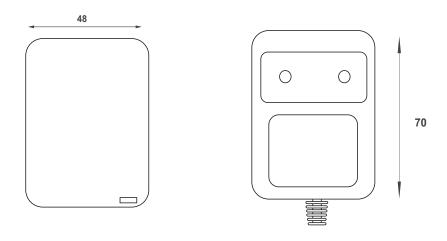
1.9.3. ENCLOSURE MATERIAL : Black.

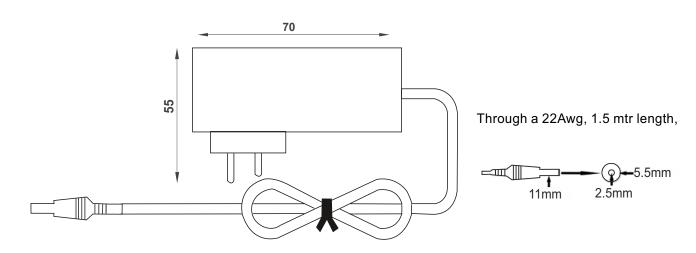
1.9.4. WEIGHT : Aprox. 250 Grams under packed condition.

1.9.5 AC PIN MATERIAL : Brass with Nickel plated.

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1.10.0. MECHANICAL DIMENSIONS & CONNECTION DRA WING:





1.11.0. MARKING INFORMATION:

Laser on the bottom of the side of the enclosure,



1.12.0. INDICATIONS:

RED led provided to indicate output ON.

1.13.0.APPROVALS:

BIS approved

CE approved

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1.13.0. PACKING INFORMATION:

BUFFER SHEET ARRANGEMENT METHOD	Put a Buffer Sheet over & under the Charger Packing Partition of each Layer
CHARGER PACKING / LAYER	20 No's
NUMBER OF LAYERS / CARTON	5 Layers
TOTAL PACKING QUANTITY	100No's
NET WEIGHT / EACH CHARGER	250.0 gms
MOTHER CARTON WEIGHT	22.0 Kgs

70.0

48.0

55.0

