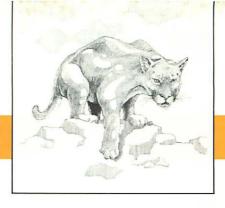
COUGARNET





BATTERY CHARGER - MA 4529A

When the COUGARNET radio communication system SMT unit is used in its transportable role it is powered by a rechargeable NICAD battery, the MA 4025D. This rechargeable power pack is fitted with thermistor sensing protection circuits to ensure that fast charging will only occur when it is safe to do so. The power pack is fused to prevent damage in case of accidental short-circuiting. The MA 4025D is an extremely rugged battery capable of withstanding arduous treatment, whilst strapped to a transportable manpack frame and used over unfriendly terrain.

MA 4529A Battery Charger

A specially designed battery charging unit, an MA 4529A, is capable of recharging up to five MA 4025D batteries at any one time. This mains driven, fully automatic charger incorporates LED indicators to show the rate of charge of the individual power packs. This charging unit is constructed to be used in a workshop environment and completes a charging cycle over three hours.



MAIN TECHNICAL PARAMETERS

MA 4529A CHARGING UNIT

Supply Voltage:

II5/230VAC ±20%

47-63 Hz

Current Drain:

IA max at 230VAC

Charge Time:

Approximately 3 hours for a fully discharged

battery

Charge Current:

High rate:

I.8A nominal

Trickle rate: 400mA nominal

After a full charge the charger will continue charging at the trickle rate

Protection:

The thermistor sensing will ensure that fast

charging will only occur at safe battery temperatures. The charger range is defined as +5°C to +40°C. Thus 'hot' or 'cold' batteries will only receive a trickle charge current

Connectors

Mains Input:

3 way socket

Battery Charging:

+ve charging contact

-ve charging contact control contact

LED Indicators:

5 x Amber (fast charge)

5 x Green (ready for use and trickle charge)

I x Red (mains on)

Fuses:

I external fuse for mains input

(1.5A for 230VAC) (3.0A for II5VAC)

MA 4025D RECHARGEABLE BATTERY

Output Voltage:

12V nominal

Capacity at (20°C): 3.5Ah min at C rate discharge

3 Hour Charge

Rate:

I.8A nominal

Protection:

Thermistor sensing Inbuilt thermostat External 6.3A fuse

Environmental

Immersion:

Im of water 5-200Hz at 2g

Vibration: Shock:

40g for 10ms

Temperature

Storage:

-40°C to +70°C

Operating:

-20°C to +70°C +5°C to +50°C

Charging (High Rate):

Ancillaries:

Compatible

MA 4529A (5 way charger)

Dimensions

Height:

Width: Depth: Weight:

85 mm 90mm 2.45kg

230mm

MA 4025 D

MA 4529A

405mm 530mm 255mm

Ilkg

There is a requirement for some organisations to charge batteries quickly, in the field, under widely varying ambient temperature conditions. Whilst this is normally safe there are occasions where a battery cell (s) may have deteriorated and may fail to vent. It is possible in these circumstances that cell disintegration or even explosion may occur. It is therefore recommended that, as a precaution, batteries being charged should be isolated away from



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