

Images for reference only

General Specification of Electronic Power Pack (EPP):

GCF/50/40782D

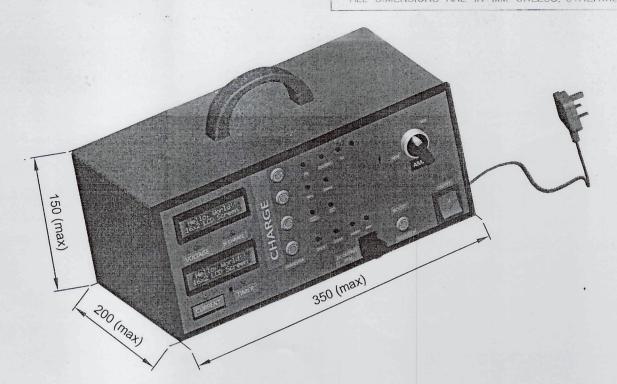
The main purpose of EPP to provide a suitable DC voltage and current to charge batteries of the gun and provide the power to an electrical and electronic load of the gun when the Engine is inoperative. When EPP charges batteries it operates electronic suite also including Inertial system, FCS and AGSS. EPP must not create any EMI with electronic suite.

To meet the above purpose following parameters need to be fulfilled by EPP.

It should be natural, Air-cooled Operating Temperature range should be -20 to 85 Deg C. EPP should be splash resistant. Enclosure of EPP should be corrosion resistant. Low Standby Power Consumption and High Efficiency. High Input Output isolation 3000V AC and High surge immunity. Input over and under voltage protections. Output short circuit, over-load, over-voltage protection. Charges battery from zero volts. Draw zero current from the battery. Capable of charging Pb, GEL/AGM, Ca Grid Batteries

| | Output Specifications | |
|------------------|--|---|
| Output Voltage | 24V - 28V | |
| Output current | 40A | |
| Output Cable | 15 mtr separate Copper Wires suited to 50 A current with permissible voltage drop of 3% (Red and Black color Wire) One end of wires should have suited connector with Output connector of EPP. | |
| Output Connector | Second end of wires must have Plug suitable for Connector of Make: HELLA. Part No. 8JB-001-935-001. | |
| Float Current | 0 - 6A | |
| Boost Current | 6 - 30A | |
| Cooling | Forced Air | |
| Efficiency | Greater than 85% | |
| Load Regulation | Better than 1% | |
| Ripple | <2% without battery | |
| Vibration | 10-500 Hz 2G 10 min/cycle 60 mins each along X, Y,Z axis | - |
| Dimensions | 350*200*150mm (max) | |

| Input Specifications | | | | | | |
|----------------------------|---|--|--|--|--|--|
| Input Voltage | 170V - 270V AC | | | | | |
| Input Cable and Plug | 5 mtr Copper cable suited to 20 A current with 15/20 A Single Phase domestic Plug Socket | | | | | |
| Input Voltage Frequency | 40Hz to 65Hz | | | | | |
| Input Current | 5-12 Amp Typical at 230V AC | | | | | |
| Input Inrush Current | Limited by NTC Thermistor to 35A | | | | | |
| Leakage current | <2 mA at 230V AC | | | | | |
| | | | | | | |



| <u>Protection</u> | | | | | |
|---|---|--|--|--|--|
| Input under voltage | Cut-off level 140V AC; Turn on voltage 160V AC | | | | |
| Input over voltage | 320V AC units shut off if voltage goes above this value and automatic restart when input is less than 275V AC | | | | |
| Output over voltage (Battery charger included) | 30V DC | | | | |
| Output short circuit and overload | Continuously Protected | | | | |
| Battery reverse polarity | Protected | | | | |
| Current drawn by charger from the battery | Draws zero current from the battery under any circumstances | | | | |
| Externally Induced Over voltage | Protected against output over-voltage caused by parallel connection of alternator, etc. | | | | |
| Annunciation | Potential free NO/NC contact for charger ON/Fail indication. LED indicators for faults and charging status | | | | |

| | | | | | A A A A A A A A A A A A A A A A A A A | | GUN | I CARRIAGE FACTORY JABALPUR | | | E |
|---|-----|----------|----------|-----------------------------|---------------------------------------|----------|---------------|-----------------------------|-----------|-------------|---|
| | | | | | 2022 | NAME | DATE | ASSY. No. | * | WEIGHT (KG) | |
| | | | 2 45 | | DRAWN | PKT | 05-11-2022 | REF. DRG. No | . 1149052 | REF. ONLY | - |
| | | | | | CHECKED | Josep. | 22/12/22 | MATERIAL | | | |
| REV | AME | ENDMENTS | SIGN | DATE | APPROVED | 1 me | 22.12.22 | 7,5,7 | | | |
| SURFACE TREATMENT | | SCALE | CALE NTS | | ELECTRONIC POWER PLANT | | | F | | | |
| GENERAL TOLERANCE ACCORDING TO IS 2108-1993 | | | | | | DRG. No. | GCF/50/40782D | SHEET 1/1 | | | |
| | | 5 | | Transport and a contract of | 6 | | | 7 | | A3 | |