



Images for reference only

General Specification of Electronic Power Pack (EPP):

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

Protection	
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

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

				GUN CARRIAGE FACTORY JABALPUR			
		2022	NAME	DATE	ASSY. No.		
		DRAWN	PKT	05-11-2022	REF. DRG. No.	1149052	WEIGHT (KG) REF. ONLY
		CHECKED		22/11/22	MATERIAL		
REV	AMENDMENTS	SIGN	DATE	APPROVED			
SURFACE TREATMENT		SCALE		NTS		ELECTRONIC POWER PLANT	
GENERAL TOLERANCE ACCORDING TO IS 2108-1993						DRG. No.	GCF/50/40782D
						SHEET	1/1