

Specification:

S No	Stage / Category	Parameter	Value
1.	Input	Voltage	180 to 270 V AC
2.	Output	Voltage (Nominal)	12V, 24 V, 36V, 48V, 72V, 96V, 110V DC
		Current	5 to 20 Amp (Load + Batt)
		Line regulation	+/- 1%
		Load Regulation	+/- 1%
		Ripple	Less than 0.5V
		Max voltage at Load (Optional)	+/- 10% of Nominal using Diode Voltage Regulator
3.	Battery Compatibility	Type	Ni-Cd, LA, VRLA
4.	Switchgear	Input	MCB
		Battery	MCB
		Load	MCB
		Auto / Manual Selection	Toggle Switch
5.	Protections	Soft Start	About 12 secs
		Charger current limit	at 102%
		Battery current limit	40 to 60 % of Overall Rating or as required
		Output Short Circuit	By switching off devices with auto recovery.
		Output Over Voltage Latch	By blocking devices at 105% of Boost Voltage. Resetting through a Push Button Mounted on the Front Panel.
		Surge Protection (Optional)	10 to 20 kA Class C SPD between L, N and PE
6.	Isolation	Input-Output	1.5 kV
7.	Cooling		Natural / Forced
8.	Magnetics	Insulation	Class F
		Core	CRNGO
9.	Temperature	Withstanding Ambient	0 to 55 deg C
		Temp Compensation(Optional)	2 to 4 mv/Cell/degC
10.	Indications	On Float	< 3% of Ah capacity
		On Boost	> 6% of Ah capacity
		Charger Fault (Optional)	For any fault condition. This can be programmed for required fault conditions.
		AC over Voltage	AC I/P voltage >270 V with Hysteresis of 10 V
		AC under Voltage	AC I/P voltage <180 V with Hysteresis of 10 V

		Charger Over Voltage	CH O/P >105% of Boost Voltage
		Charger Under Voltage	CH O/P < 96% V of Nominal Voltage
		Battery under Voltage	1.85 to 1.95 Volts per cell
		Battery under Voltage trip (Optional)	1.85 to 1.95 Volts per cell
		Mains ON-Battery discharging	During battery discharging when Mains is available
		Safety timer ON	8 Hrs / 10 Hrs / 12 Hrs
		Timed Boost ON	Gets activated when push button is pressed. Charger shall continue in Boost for 12 Hrs and comes back to Float irrespective of the State of the charge of the battery.
		Load over Voltage	115% of Nominal Voltage
		Load over voltage Latch	118% of Nominal Voltage
		Load Under Voltage	85% of Nominal Voltage
		Charger Over Load	Load current > 100%
		Charger Short Circuit	When output is shorted
		Bridge Temp high (Optional)	>70 deg C
11.	Meters	Charger / Battery Current	72mm x 72mm Analog Meter
		Charger/Battery Voltage	72mm x 72mm Analog Meter
12.	PF Contacts	Charger Fault (Common Alarm)	2 Amp NO-C-NC
13.	Cabinet	Dimensions (W x H x D) in mm	250 x 300 x 400 approx.
		Paint	Light Grey / Siemens Grey / Green
		Sheet	MS
		Protection	IP 21
14.	Termination	Input	Through 3 core cable
		Load	Terminals
		Battery	Terminals
		Charger Fault PF Contact (Optional)	3 Way Terminals ( No-C-Nc)