

Specification sheet for Battery Charger PS-2410N-6K

INPUT	VOLTAGE RANGE	190VAC - 300VAC
	FREQUENCY RANGE	50 Hz \pm 10%
OUTPUT	DC VOLTAGE	24VDC nominal (Output Voltage based on battery condition 21-28.5VDC)
	FLOAT VOLTAGE	26.95 – 27.45 VDC
	BOOST VOLTAGE	27.95 – 28.45 VDC (Activated above 1.3- 1.9Amp)
	RATED CURRENT	10A
	Battery charging current setting Provided according To Battery (AH) - 3 Amp, 5 Amp, and 10 Amp with impulsive charging	
	RIPPLE	<1%
	NOISE	<2%
	EFFICIENCY	>80%
	LINE REGULATION	\pm 1% with 10-100% load
	LOAD REGULATION	\pm 1% with 10-100% load
LED INDICATIONS	INPUT UNHEALTHY	Red LED glow when Input voltage goes below 180volt and above 300VAC
	FUSE FAIL	Red LED glow when input fuse get failed
	MAINS ON	Green LED glow when mains supply is present
	FLOAT MODE	Green LED glow when battery charger output is present and output current is less than 1.3- 1.9Amp
	BOOST MODE	Yellow LED glow when battery charger output is present and output current is above 1.3- 1.9Amp
	OUTPUT OVERLOAD	Red LED glow when output current exceeds beyond 18-20 Ampere
	BATTERY LOW PRE-CUT	Red LED glow when battery voltage falls below 22.5 -23.5 VDC
	BATTERY REVERSE	Red LED glow when battery is connected with reverse polarity with mild buzzer
	OUTPUT ON	Green LED glow when battery charger output is present either on mains mode or battery mode

POTENTIAL FREE CONTACTS	AC FAIL	Relay contact operates when AC mains supply is healthy
	CHARGER FAIL	Relay contact operates when Charger Output is healthy
	DC FAIL	Relay contact operates when DC supply is healthy
PROTECTIONS	INPUT OVER VOLTAGE	Shutdown output voltage when input voltage is above 300VAC charger sustains min 5minutes at 315Vac, turns on output when input voltage is within operating range
	OUTPUT OVER VOLTAGE	Constant output voltage control by feedback loop
	OVER TEMPERATUE	Shutdown when temperature goes too high, and also automatically recovers when temperature becomes normal.
	OUTPUT OVERLOAD PORTECTION	Shut down output when output current goes beyond 18-20 Ampere
	BATTERY LOW PRE-CUT	Disconnect battery from charger when battery voltage falls below 22.5 -23.5 VDC
	BATTERY LOW OUTPUT CUT	Disconnect battery from charger when battery voltage falls below 20 -21 VDC
	BATTERY REVERSE	Disconnect battery from charger when battery is connected with reverse polarity
	INPUT TRANSIENT VOLTAGE POTECTION	Input transient voltage protection by suitably rated VDR
SAFETY	HIGH VOLTAGE WITHSTAND CAPACITY	Terminal-Chassis :2kV AC for 1 minutes
	INSULATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG: Above 100M Ohms at 500VDC
EMC	Design with complied to following standards	
	E.F.T	IEC 61000-4-4 Level 4
	SURGE	IEC 61000-4-5 Level 6K
	ESD	IEC-61000-4-2 (15KV- Air Discharge, 8KV-Contact)
	VOLTAGE DIPS TEST	IEC 61000-4-11

ENVIRONMENTAL	AMBIENT TEMPERATURE OPERATION	-5° C To +60° C
	AMBIENT TEMPERATURE STORAGE	-20° C To +65° C
	HUMIDITY	95% RH, non-condensing
MECHANICAL	DIMENSION	255mm (Width) X 180mm (Depth) X 92mm (Height)
	MOUNTING	Back Mounting Width 295mm including mounting Mounting hole to hole :275mm X 50mm Mounting hole Diameter: 8mm Quantity: 4 Nos.
	WEIGHT	3.0 Kgs
	COLOR	Black (Powder coating)

Product Photo:

