



Description

UPS 1210a has wide input voltage range, 88-264Vac. Nominal output voltage is 13.8V. Device can be constantly loaded upto 10A, and upto 11.5A within 5 minutes. BATTERY type can be standard car battery or gel Pb battery with nominal voltage 12V and capacity between 34Ah and 110Ah. In that case, it is provided uninterruptible power supply for connected device, even if power line breaks off. Autonomy time depends on capacity of used battery and device power consumption. UPS 1210a has power consumption less than 40mA in battery mode.

Switch between normal and battery mode, and protection as well, are provided with relay contacts, thus there is no voltage on semiconductors resistance.

Features

- Constant power supply from 12V BATTERY
- Wide input voltage range 88-264Vac
- ACCU charging in voltage "float" mode
- OUTPUT VOLTAGE and BATTERY BACKUP LED indications on front panel
- Switching OFF input voltage and BATTERY with one switch on front panel
- Accessible fuses on rear panel
- ACCU over-discharging protection
- Non-appropriate BATTERY connecting protection
- BATTERY polarity connecting protection
- BATTERY connectors short circuit protection

Applications

Uninterruptible power supply UPS 1210a is intended to use with radio stations and repeaters which nominal input power supply voltage is 13.8V, but it can be used, without restrictions, for power supplying other devices which nominal power supply voltage is 13.8V and its power consumption is not exceeding 140W.



Uninterruptible power supply UPS 1210a in use with radio station and with DECODE packet radio modem PRM III

■ Technical specifications

Input voltage range	88~264V _{AC} 47~63Hz; 124~370V _{DC}
Input current	2.5A/115V, 1.5A/230V
Inrush current	20A/115V, 40A/230V
Leakage current	< 1mA/240V _{AC}
Line regulation	±0.5%
Output voltage	13.8V ± 2%
Output rated current	10A
Output current range	0~11.5A
Ripple & noise	150mV _{p-p}
Load regulation	±0.5%
DC output power	140W
Efficiency	80%
Overload protection	105%~135% type: constant current limiting, reset: auto recovery
Overvoltage protection	115%~135%, type: shutdown
ACCU output voltage	13.3V
Nominal charging current	0.5A
Charging current range	0~0.5A
Overload protection	0.51~0.9A type: constant current limiting, reset: auto recovery
BATTERY low protection	10V ± 0.8V
Temperature coefficient	± 0.03% / °C (0~50°C)
Setup time	t _s = 2s / 115V _{AC} , t _s = 1s / 230V _{AC}
Rise time	t _r = 90ms / 115V _{AC} , t _r = 90ms / 230V _{AC}
Hold time	t _h = 16ms / 115V _{AC} , t _h = 20ms / 230V _{AC}
Power factor	PF > 0.92
Vibrations	10~500Hz, 2G 10min / 1 cycle, period with 60min each axes
Withstand voltage	I/P-O/P: 3KV _{AC} , I/P-FG: 1.5KV _{AC} , O/P-FG: 0.5KV _{AC}
Isolation resistance	I/P-O/P, I/P-FG, O/P-FG: 500V _{DC} / 100 MOhms
Working temperature, humidity	-10°C~+50°C / with 50% of full load, 20%-90% RH
Storage temperature, humidity	-20°C ~ +85°C, 10%-95% RH
Dimensions	180mm x 70mm x 250mm
Protection	IP20
Weight	1.5kg
Mounting	desktop
Connectors	screw connectors, 250V, 16A max, 2.5mm ²
AC socket cable	with ground, 2m length