PS10, PS20 PS15ᵥ24

Power Supplies

PSAM-1

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CE

TECHNICAL SPECIFICATION

Parameter	PS10	PS20	PS15v24
AC input	230V AC +15%/-10% 50-60Hz		
DC output *(The nominal value when battery fully charged)*	13.8VDC		27.6VDC
Max. output current *(No time limits, full temp. range)*	1.0A	2.0A	1.5A
Reserve battery *(Sealed gel type only)*	12V/7Ah		2 x 12V/7Ah
Battery charging current (Adjustable via on-board potentiometer)	0.3A		
Battery cut-off voltage level *(Battery is automatically reconnected after AC supply return)*	~10.0V		~20.0V
Environmental class	Class I – Indoor, home and office, temp. +4°C ... +40°C, humidity max. 95% (non condensed)		
Dimensions	234 x 165 x 80 mm		269 x 168 x 120 mm
Weight *(Without battery(s))*	2.0	2.2	2.65

General Descripton

The **PS10, PS20 and PS15v24** power supplies are dedicated for use in situations where 12V DC (PS10 and PS20) or 24V DC (PS15v24) battery buffered supply sources are required.

Each device consists of metal case with compartment for sealed lead-acid battery (PS15v24 - two 12V batteries), mains transformer and electronic circuit. The electronic circuit of PS employs internal current limiting and short circuit protection which make it essentially indestructible. The reserve battery is connected to output terminals trough an ultra low-resistance MOS transistor, such a circuit architecture enables optimum performance in case of AC failure and during dynamic changes of load when excessive current consumption is required. The PS controls battery charging current and monitor battery voltage level.

If battery level drops below minimum allowable level PS disconnect it from load, battery is automatically reconnected after AC return.

PSAM-1 alarm module

The PS20 can be equipped with optional alarm module (PSAM-1). The main purpose of PSAM-1 module is to detect and signalize an alarm situation of a power supply. The PSAM-1 detects low battery level, battery failure and lost of AC supply. Each alarm can be signalized on separate transistor output or can be transmitted in digital form to host device (PRxx2 series access controller).

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