

Features

- Wide input voltage range 90...264V with active PFC
- High efficiency up to 92%
- Power ratings from 320W to 1500W with constant power from 1KW
- Output voltage from 16V up to 360V , Output current from 4A up to 60A
- Graphic display for all values and functions
- Remote sense with automatic detection
- Analogue U / I programmable via 0...10V or 0...5V
- Analogue U / I monitoring via 0...10V or 0...5V
- Alarm management with many settings
- CE marked compliance to EMC, Low voltage directives
- Optional digital interfaces RS232, CAN, USB

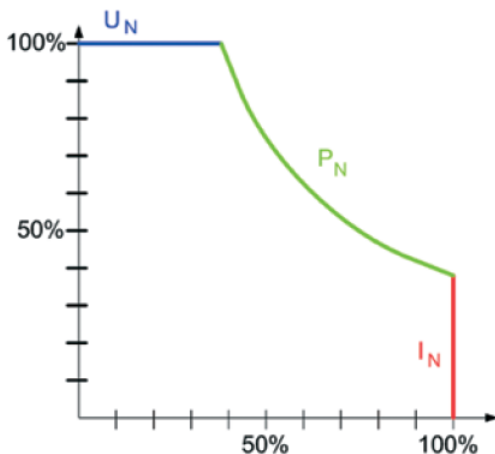


Power supply without digital interface

Description

The PS800 series are state-of-the-art microprocessor controlled chassis mounting power-supplies. The PS800 series have numerous features and functions making these units suitable for a wide range of industrial and control applications. Units from 1KW output power and higher have a unique constant power output stage that is autoranging, this allows a single unit to supply a high current at low voltage levels or a lower current at higher voltage levels. Therefore, a wide range of applications can be covered by the use of just one single unit.

The graph below shows the relationship between output voltage current and power in a constant power power supply.



Input

The equipment uses an active Power Factor Correction, enabling worldwide use on a mains input from 90V up to 264V AC.

Output

Different units with voltage output ranges from 16V to 360V, current output ranges from 4A to 60A and power output ranges from 320W to 1,5kW, are available. Output voltage, current, power, OVP etc. can be set via menu and are shown on the integrated display.

Overvoltage protection

Intended to protect connected loads, it is possible to define an overvoltage protection limit (OVP). If the output voltage exceeds the defined limit, the output is shut off. Also a status signal on the display and via the analogue interface will be generated.

Sense input

The sense input can be connected directly to the load to compensate voltage drops along the power leads. If the sense input is connected to the load, the power supply will correct the output voltage to ensure that the accurate required voltage is available on the load.

Analogue interface

Analogue inputs with voltage ranges from 0V...10V or 0V...5V to set output voltage and current from 0...100% are available. To monitor the output voltage and current, analogue outputs are provided with voltage ranges from 0V...10V or 0V...5V. Several digital inputs and outputs are available for controlling and monitoring the status.

Options

The PS800 series of power supplies are available with an optional digital interface for remote programming, interfaces available are RS232, CAN or USB.

PS800 SERIES

AC/DC Chassis Mount Programmable Power Supplies 320W - 1.5KW



Specifications

Input Voltage	Single Phase , 90-264VAC , 45-65Hz
Power Factor	> 99%
Load Regulation 10% - 90% load	< 0.05%
Transient Response 10% - 90% load	< 2msec
Dimensions L x W x H	320W , 640w : 270 x 240 x 90mm 1KW , 1.5KW : 400 x 240 x 90mm
Output Power	320W , 640W , 1KW , 1.5KW constant output power stage for 1KW and above
Cooling	Convection cooled up to 640W, temperature controlled fan cooling for 1KW and above
Protection	Overvoltage , Overtemperature , Short circuit
Efficiency	> 92%



Power supply with digital interface

Model Selection Table for models without digital interface

MODEL	Vout	Iout	Power Max	Constant Power	Ourput Ripple	Fan Cooled	Weight (kg)	Current Ripple
PS816-20R	0-16V	0-20A	320W	NO	<40mVp-p	NO	4.7	<50 mA
PS832-10R	0-32V	0-10A	320W	NO	<40mVp-p	NO	4.7	<50 mA
PS865-05R	0-65V	0-5A	320W	NO	<40mVp-p	NO	4.7	<50 mA
PS832-20R	0-32V	0-20A	640W	NO	<40mVp-p	NO	4.9	<50 mA
PS865-10R	0-65V	0-10A	640W	NO	<40mVp-p	NO	4.9	<50 mA
PS8160-04R	0-160V	0-4A	640W	NO	<40mVp-p	NO	4.9	<50 mA
PS880-40R	0-80V	0-40A	1KW	YES	<70mVp-p	YES	8.9	<100 mA
PS880-60R	0-80V	0-60A	1.5KW	YES	<70mVp-p	YES	9.2	<100 mA
PS8360-10R	0-360V	0-10A	1KW	YES	<100mVp-p	YES	8.9	<15 mA
PS8360-15R	0-360V	0-15A	1.5KW	YES	<100mVp-p	YES	9.2	<15 mA

Model Selection Table for models with digital interface

MODEL	Vout	Iout	Power Max	Constant Power	Ourput Ripple	Fan Cooled	Weight (kg)	Current Ripple
PSI816-20R	0-16V	0-20A	320W	NO	<40mVp-p	NO	4.7	<50 mA
PSI832-10R	0-32V	0-10A	320W	NO	<40mVp-p	NO	4.7	<50 mA
PSI865-05R	0-65V	0-5A	320W	NO	<40mVp-p	NO	4.7	<50 mA
PSI832-20R	0-32V	0-20A	640W	NO	<40mVp-p	NO	4.9	<50 mA
PSI865-10R	0-65V	0-10A	640W	NO	<40mVp-p	NO	4.9	<50 mA
PSI8160-04R	0-160V	0-4A	640W	NO	<40mVp-p	NO	4.9	<50 mA
PSI880-40R	0-80V	0-40A	1KW	YES	<70mVp-p	YES	8.9	<100 mA
PSI880-60R	0-80V	0-60A	1.5KW	YES	<70mVp-p	YES	9.2	<100 mA
PSI8360-10R	0-360V	0-10A	1KW	YES	<100mVp-p	YES	8.9	<15 mA
PSI8360-15R	0-360V	0-15A	1.5KW	YES	<100mVp-p	YES	9.2	<15 mA