

IVP Series

Intelligent switch mode variable high performance power supplies



The IVP Series of Intelligent Switch Mode Variable high performance power supplies are the latest and broadest range of single output, zero up, stand alone programmable power supplies available today. These are designed for multiple applications such as bench top or rack mount industrial applications, maintenance, R&D, Scientific Test Laboratories and provide the much needed flexibility for today's system needs.

The front panel with its digital encoder and its embedded micro-controller enables precise and complete control of the output of the power supply. Digital and opto-isolated analog programming, its compact size, high efficiency and wide AC input range with active power factor corrector make it a natural choice for demanding clients.

These are available from 200W, 400W and 800W power ratings. For higher output needs two or more units can be connected in parallel as these units are capable of automatically sharing the load current equally.

IVP 200W to 216W	IVP400 to 432W	IVP800 to 864W
0-36V/0-06A	0-36V/0-12A	0-36V/0-24A
0-60V/0-3.5A	0-60V/0-07A	0-60V/0-14A
0-80V/0-2.5A	0-80V/0-05A	0-80V/0-10A
0-120V/0 -1.8A	0-120V/0-3.6A	0-120V/0-7.2A

Feature:

- LabView® and LabWindow® drivers
- Embedded micro controller with digital rotary encoder
- RS 485, RS 232 and GPIB interface options
- Standard 19" slide in enclosures, upto 6 units in single 3U high rack
- Compact size, light weight with easy to pull handle in front
- External voltage and resistance programming
- Last setting memory, software calibration
- Unique honey comb filter with front to rear cooling enable close stacking
- True zero voltage & current adjustability
- Soft start feature, internal temperature controlled fan

General Specifications

AC input voltage	For all models	90 to 264V AC, 45 to 63Hz, 1f
Input power factor	For all models	0.99 typical @ full load, nominal line
Switching frequency	For all models	50KHz Nominal
Time delay	For all models	7 sec maximum from power ON until output stable.
Voltage mode transient response	For all models	Better than 200uS for load change from 40% to 90%
Minimum voltage differential	For all models	±600 VDC from output to safety ground
Remote analog programming	For all models	Voltage & current programming inputs through 0-5V for 0 to 100% output voltage & current change
Remote analog monitoring	For all models	Voltage & current monitoring outputs 0-5V
Remote programming & Monitoring accuracy	For all models	0.5% for 0 to 100% output.
Maximum remote sense compensation	For all models	1V/Line
Operating temperature	For all models	0 to 50°C
Storage temperature	For all models	-20 to 70°C
Humidity	For all models	Upto 90% RH non-condensing
Front panel voltage & current controls	For all models	Digital rotary encoder with switch for selection.
Input AC connection	For all models	10A, 250V line socket
Dimensions & weight	200- 216W	70mm W, 124mm H, 350mm D, 2.8kgs.
	400- 432W	70mm W, 124mm H, 350mm D, 2.8kgs.
	800- 864W	145mm W, 124mm H, 350mm D, 5.6kgs.
Conforming standards		CE mark: meets EN55022, class A, safety standard EN60950

Specification subject to change without notice.

Electrical Specifications

IVP200-216 Specifications

Models	0-20V/0-10A	0-36V/0-06A	0-60V/0-3.5A	0-80V/0-2.5A	0-120V/0-1.8A
OUTPUT RATING					
O/P voltage	0-20V	0-36V	0-60V	0-80V	0-120V
O/P current	0-10A	0-06A	0-3.5A	0-2.5A	0-1.8A
O/P power	200W	216W	210W	200W	216W
LINE REGULATION					
Voltage	0.1%				
Current	0.1%				
LOAD REGULATION					
Voltage	0.1%				
Current	0.1%				
METER ACCURACY					
Voltage	0.2% \pm 3digit				
Current	0.2% \pm 3digit				
OUTPUT NOISE (90-20MHz)					
Voltage (peak to peak)	<45mV p-p				
OUTPUT RIPPLE (RMS)					
Voltage	<10mV	<10mV	<10mV	<20mV	<20mV
Current	<10mA				
TEMP. COEFFICIENT					
Voltage	0.05%(of $V_{max.}/^{\circ}C$)				
Current	0.05%(of $I_{max.}/^{\circ}C$)				

IVP400-432 Specifications

Models	0-20V/0-20A	0-36V/0-12A	0-60V/0-7A	0-80V/0 5A	0-120V/0-3.6A
OUTPUT RATING					
O/P voltage	0-20V	0-36V	0-60V	0-80V	0-120V
O/P current	0-20A	0-12A	0-7A	0-5A	0-3.6A
O/P power	400W	432W	420W	400W	432W
LINE REGULATION					
Voltage	0.1%				
Current	0.1%				
LOAD REGULATION					
Voltage	0.1%				
Current	0.1%				
METER ACCURACY					
Voltage	0.2% \pm 3digit				
Current	0.2% \pm 3digit				
OUTPUT NOISE (90-20MHz)					
Voltage (peak to peak)	<45mV p-p				
OUTPUT RIPPLE (RMS)					
Voltage	<10mV	<10mV	<10mV	<20mV	<20mV
Current	<10mA				
TEMP. COEFFICIENT					
Voltage	0.05%(of $V_{max.}/^{\circ}C$)				
Current	0.05%(of $I_{max.}/^{\circ}C$)				

Specification subject to change without notice.

Specifications indicate typical performance at 25°C \pm 5°C, nominal input of 120V AC/230V AC

Electrical Specifications

IVP800-864 Specifications

Models	0-20V/0-40A	0-36V/0-24A	0-60V/0-14A	0-80V/0-10A	0-120V/0-7.2A
OUTPUT RATING					
O/P voltage	0-20V	0-36V	0-60V	0-80V	0-120V
O/P current	0-40A	0-2 A	0-14A	0-10A	0-7.2A
O/P power	800W	864W	840W	800W	864W
LINE REGULATION					
Voltage	0.1%				
Current	0.1%				
LOAD REGULATION					
Voltage	0.1%				
Current	0.1%				
METER ACCURACY					
Voltage	0.2% \pm 3digit				
Current	0.2% \pm 3digit				
OUTPUT NOISE (90-20MHZ)					
Voltage (peak to peak)	<45mV p-p				
OUTPUT RIPPLE (RMS)					
Voltage	<10mV	<10mV	<10mV	<20mV	<20mV
Current	<10mA	<10mA	<10mA	<10mA	<10mA
TEMP. COEFFICIENT					
Voltage	0.05%(of $V_{max.}/^{\circ}C$)				
Current	0.05%(of $I_{max.}/^{\circ}C$)				

Specification subject to change without notice.

Specifications indicate typical performance at 25°C \pm 5°C, nominal input of 120V AC/230V AC



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