

## Models\* VSP6020, VSP2050, VSP4030, VSP12010

**High Power Switching DC Power Supplies** 

## **Data Sheet**

Specification	VSP6020*	VSP2050*	VSP4030*	models VSP12010*
Output Specification				
Power	1.2KW	1.2KW	1.2KW	1.2KW
Output Voltage	0-60V	0-20V	0-40V	0-120V
Output Current	0-20A	0-50A	0-30A	0-10A
Ripple rms. (10Hz to 1MHz)	≤ 10mV	≤ 15mV	≤ 10mV	≤ 20mV
Noise (10Hz to 20MHz)	≤ 45mVpp	≤ 45mVpp	≤ 45mVpp	≤ 45mVpp
Programming Resolution(Digital I	nterface), LSB (not LED displays)			
Voltage	20 mV	10 mV	10 mV	100 mV
Current	10 mA	20 mA	10 mA	10 mA
Output Programming Accuracy(A	nalog Programming 0 To 5v & 0	To 10)		<u> </u>
Voltage		% of F. S. ± 1 Digit (spec. fo	r all VSP models)	
Current	0.5 % of F. S. ± 1 Digit (spec. for all VSP models)			
Meter Accuracy	0.0	70 01 11 01 = 1 Digit (spee: 10	· un voi modelo,	
Voltage	+/- 0.2% of F.S. +/- 3 Digit. (spec. for all VSP models)			
Current	+/- 0.2% of F.S. +/- 3 Digit. (spec. for all VSP models)			
Regulation	+/-	0.2/0 UI 1.3. 17/- 3 DIBIT. (SP	cc. ioi aii vəi iiioucisj	
0		O I W of EC (cmax for all VC)	D models)	
CV Line Regulation	0.1 % of ES (spec. for all VSP models)			
CC Line Regulation	0.1 % of ES (spec. for all VSP models)			
CV Load Regulation	0.1 % of ES (spec. for all VSP models)			
CC Load Regulation	0.1 % of ES (spec. for all VSP models)			
Output Specification				
Stability	0.05%			
Efficiency	80% Minimum			
Transient Response	250 microseconds for load change from 40% to 90%			
Mode Of Operation				
Local Mode	Through front panel potentiom	eter for voltage, current and c	ver voltage and Push switch	n for Output ON/ OFF con
Remote Mode	Interface Analog programming of voltage and current.			
Voltage	0 - 5 volts or 0 – 10 volts for output voltage and current, selection through DIP-switch.			
Resistance	0 – 4.85k ohms from 0 to full-scale level.			
Digital Interface	RS-232 / GPIB			
Protections				
Over voltage protection	Programmable through POT in local mode and through digital interface in remote mode.			
Over temperature protection	Through 90 °C. Thermal switch on heat sink.			
Over temperature protection		Through 70 C. Thermai sv	viteri ori ricat sirik.	
nnut specifications				
nput specifications	95V/ac to 264V/ac			
Mains Input Range	95Vac to 264Vac.			
Input Frequency	47 To 63 Hz			
Input Power Factor	0.99 On Full Load At Nominal Input.			
Inrush Current		Limited By N	10	
Operating Environment				
Temperature	0 - 50°C			
Relative Humidity	< 80% rh – non condensing			
Storage Temperature	- 20°C. to + 70°C.			
Warm-up Time	15 minutes.			
Safety Standards				
EMI Filtering	EN55022 Class-A			
Safety Class		EN60950		
Mechanical Specifications				
Weight (approx.)	13.7lbs. (6.2 KG.)			
Dimensions (WxHxD)	19 x 1.75 x 18" (483 x 44.5 x 457mm)			
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Dimensions with rubber feet		19 x 2.13 x 20" (483 x	54 x 457mm)	





SUPPLIED: Instruction Manual

OPTIONAL (for all models): TL-5, TL-30

\* = Specification also apply to corresponding GPIB model (Add GPIB to the model number for a GPIB interface instead of a RS232 interface. Example: VSP6020GPIB)

ES = Full Scale. Full scale will be different for each model. Example: If you have a VSP2050 and you are measuring the voltage meter accuracy, the meter can not off more

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than 0.3V (20V + 0.2% +3 digit). Note: 3 digits refers to the power supply displays least significant digit.