

Parameter		PS16-200	PS20-160	PS32-100	PS40-80	PS60-52	PS80-40	PS100-32	PS120-26	PS160-20	PS300-10	PS400-8	PS600-5	PS800-4	PS1000-3
Constant Current Mode															
Load regulation 0 ~ 100% (mA) (*7)		160	128	80	64	42	32	25	20	16	8	6.4	4	3	2
Line Regulation (mA) (*4)		100	80	50	40	26	20	16	13	10	5	4	2.5	2	1.6
Ripple (At full load)	BW= 5Hz~1MHz (mArms)	600	450	300	300	200	70	45	40	30	12	10	5	5	5
Programming Speed (into resistive load) (*8)															
Rise time (10% to 90%)	100% load (ms)	30	30	30	30	50	50	50	50	50	50	70	100	125	150
Fall time (90% to 10%)	100% load (ms)	50	50	80	80	80	100	100	100	100	100	150	200	250	300
	No Load (ms)	450	600	800	900	1100	1300	2100	2200	2500	3000	3100	3100	3500	4000
Temperature Coefficients	CV	100 ppm/°C (after warm up of 30 min and during 8 Hrs) at constant line and load													
	CC														
Output Stability	CV	100 ppm (after warm up of 30 min and during 8 Hrs) at constant line, load and temperature													
	CC														
Analog Programing (Standard)															
Programing	Voltage	0 ~ 5 V, Accuracy: $\pm 0.5\%$ of Vrated, Input Impedance: 1 M Ω													
	Current	0 ~ 5 V, Accuracy: $\pm 1\%$ of Irated, Input Impedance: 1 M Ω													
Monitoring	Voltage	0 ~ 5 V, Accuracy: $\pm 1\%$ of Vrated, Output Impedance: <150 Ω / 4 mA max													
	Current	0 ~ 5 V, Accuracy: $\pm 1\%$ of Irated, Output Impedance: <150 Ω / 4 mA max													
Isolated Analog Programing (Optional)															
Programing	Voltage	0 ~ 10 V, Accuracy: $\pm 1\%$ of Vout rated, Input impedance: 1 M Ω													
	Current	0 ~ 10 V, Accuracy: $\pm 1\%$ of Iout rated, Input impedance: 1 M Ω													
Monitoring	Voltage	0 ~ 10 V, Accuracy: $\pm 1\%$ of Vout rated, Output impedance: 150 Ω / 4 mA max													
	Current	0 ~ 10 V, Accuracy: $\pm 1\%$ of Iout rated, Output impedance: 150 Ω / 4 mA max													
V reference		5.1 V \pm 15 mV													
Status outputs		Power Supply : OK = Logic 1 (High), AC Fail = Logic 0 (Low), DC Fail : Logic 0 (low) for DC fail by $\pm 5\%$ of set value, CV / CC Status : CV = Logic 0 / CC = Logic 1 Interlock : Short = Power Supply Enabled, Open = Power Supply Disabled DC ON Status : ON = Logic 1, OFF= Logic 0, OVP Status : Fault = Logic 0, OK = Logic 1, OTP Status : Fault = Logic 0, OK = Logic 1,													

Parameter	PS16-200	PS20-160	PS32-100	PS40-80	PS60-52	PS80-40	PS100-32	PS120-26	PS160-20	PS300-10	PS400-8	PS600-5	PS800-4	PS1000-3	
	Remote Status : Remote = Logic 1, Local = Logic 0														
Remote shutdown	+5 V														
Remote Programing															
RS232 / USB / RS485	ADC : 16 Bits, DAC : 16 Bits														
Voltage Programing	Resolution : Better than 15 bit, Accuracy : $\leq \pm 0.05\%$ Vrated														
Current Programing	Resolution : Better than 15 bit, Accuracy : $\leq \pm 0.2\%$ Irated														
Monitor Voltage	Resolution : Better than 15 bit, Accuracy : $\leq \pm 0.5\%$ Vrated														
Monitor Current	Resolution : Better than 15 bit, Accuracy : $\leq \pm 0.5\%$ Irated														
OVL & UVL Programing	Resolution : Better than 15 bit, Accuracy : $\leq \pm 0.05\%$ Vrated														
Front Panel controls:	Mains ON/ OFF, Voltage and Current setting with Encoders, Switch Settings: Set, Over Voltage, Under Voltage, Foldback, Remote & Output														
Indicators:	LEDs for : CV, CC, Over Voltage, Under Voltage, Foldback, Remote & Output ON														
Display:															
Accuracy	Voltage : $\pm (0.5\% + 2D)$, Current : $\pm (0.5\% + 2D)$														
Scale	Voltage (V)	0-16.00	0-20.00	0-32.00	0-40.00	0-60.00	0-80.00	0-100.0	0-120.0	0-160.0	0-300.0	0-400.0	0-600.0	0-800.0	0-1000
	Current (A)	0-200.0	0-160.0	0-100.0	0-80.00	0-53.33	0-40.00	0-32.00	0-26.66	0-20.00	0-10.66	0-8.00	0-5.33	0-4.00	0-3.20
Resolution	Voltage	10mV	10mV	10mV	10mV	10mV	10mV	100mV	100mV	100mV	100mV	100mV	100mV	100mV	1V
	Current	100mA	100mA	100mA	10mA	10mA	10mA	10mA	10mA	10mA	10mA	10mA	10mA	10mA	10mA
Protections:	Over voltage, Over current, Short Circuit, Fold Back, Over temperature														
Output Terminals	Bus bar with M5 bolts														
Mains Input	220 \pm 10%, 50 / 60Hz (47 ~ 63Hz)														
Power Factor	0.99 @ full load / 0.98 @ 50% load														
Turn On Delay	600 ms after mains switched ON														
Inrush current	< 50 A														
Hold up Time	20 ms														
Environment Conditions															
Operating Temperature	0 ~ +50°C; with 100% load; derated 75% at 60°C														
Storage	-40 ~ + 85°C														
Humidity	max. 95% non condensing at 40°C, max. 75% non condensing at 50°C														
Insulation	Insulation: Input to Output: 3750 V for 1 min, Input to case: 2500 Vrms, Output to case: 600 V Insulation resistance: 100 M Ω at 25°C, 70% RH, 500 Vdc														

Parameter	PS16-200	PS20-160	PS32-100	PS40-80	PS60-52	PS80-40	PS100-32	PS120-26	PS160-20	PS300-10	PS400-8	PS600-5	PS800-4	PS1000-3
Safety Standard	EN 60950-1 / IEC61010													
EMC Standards	ESD :EN 61000-4-2: 2009, Fast Transients :EN 61000-4-4: 2012 Conducted & Radiated Emission :EN 61000-6-3/CISPR 11 Conducted Immunity : EN 61000-4-6, Radiated Immunity : EN 61000-4-3 Voltage dips & Interruption : EN 61000-4-11 Harmonics : EN 61000-3-2, Flicker : EN 61000-3-3													
General Specifications														
Dimensions	W x D x H : 443 x 485 x 87 mm (2U, 19" Rack size) excluding connectors, terminals, switches, front and back panel controls, handles etc													
Weight	18.5kg (approx.)													
Cooling	Forced, variable fan speed													
Interfaces	Standard	Analog Programing, USB / RS232 / RS485												
	Optional	LAN												
Standard Accessories	Mains Cable, USB Cable, RS485 Cable													

Subject to change without notice

Notes:

Unit warm up time is 30 min.

- *1. Minimum output voltage guaranteed to maximum 0.2% of rated output voltage.
- *2. Minimum output current guaranteed to maximum 0.4% of rated output current.
- *3. Measured from 0 ~ 100% load at constant input voltage, at the sensing point in local sense.
- *4. Measured at 220V±10%, at constant load.
- *5. Measured in DSO with JEITA RC-9131C (1:1) probe
- *6. The maximum voltage on the power supply terminals must not exceed the rated voltage.
- *7. Measured from 0 ~ 100% load voltage change of units rated voltage at constant input voltage.
- *8. Measured at rated output voltage

scientific

Scientific Mes-Technik Pvt. Ltd.

B-14, Industrial Estate, Pologround, Indore 452 015, India

☎ 0731-2422330/31/32/33

✉ sales@scientificindia.com

🏠 www.scientificindia.com

Bengaluru 080-23452635
Chennai 044-42054180
Gujarat +917567463752
Hyderabad +917095228811
Kanpur +919981329105

✉ bangalore@scientificindia.com
✉ chennai@scientificindia.com
✉ gujarat@scientificindia.com
✉ hyderabad@scientificindia.com
✉ up@scientificindia.com

Kolkata +919673162333
Mumbai +919850901735
New Delhi +918770013379
Pune +919603828884

✉ kolkata@scientificindia.com
✉ mumbai@scientificindia.com
✉ ndelhi@scientificindia.com
✉ pune@scientificindia.com

