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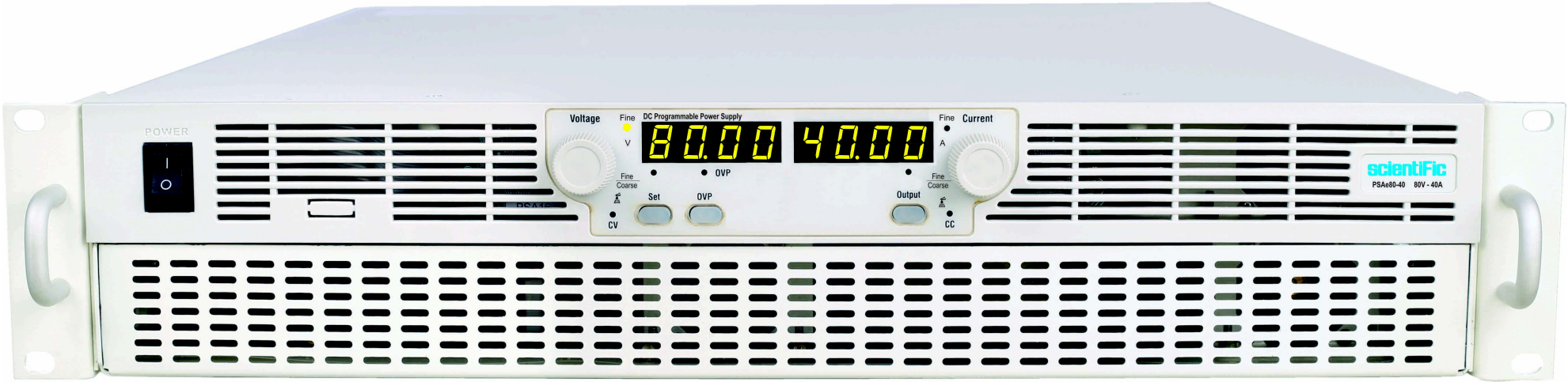
60 Years of Excellence

3200W Programmable DC Power Supply

MADE IN INDIA



Technical Specifications

	PSAe 16-200	PSAe 20-160	PSAe 32-100	PSAe 40-80	PSAe 60-52	PSAe 80-40	PSAe 100-32	PSAe 120-26	PSAe 160-20	PSAe 300-10	PSAe 600-5	PSAe 800-4	PSAe 1000-3
Output Voltage (V)	16	20	32	40	60	80	100	120	160	300	600	800	1000
Output Current (A)	200	160	100	80	53.3	40	32	26	20	10.6	5.3	4	3.2
Rated Power (W)	3200												
Efficiency at 230V, full load (%)	80	80	83	83	83	85	85	85	85	85	87	87	87
Constant Voltage Mode													
Load regulation 0 ~ 100% (mV)	3	3	5	5	5	5	5	5	8	8	15	15	15

		PSAe 16-200	PSAe 20-160	PSAe 32-100	PSAe 40-80	PSAe 60-52	PSAe 80-40	PSAe 100-32	PSAe 120-26	PSAe 160-20	PSAe 300-10	PSAe 600-5	PSAe 800-4	PSAe 1000-3
Line Regulation (mV)		2	2	2	2	2	2	2	3	3	3	5	5	5
Ripple	BW=300 kHz (mVrms)	8	8	8	8	8	10	12	12	15	18	25	35	60
	BW= 5Hz~1MHz (mVrms)	12	12	12	12	12	15	18	18	20	25	30	45	70
	20 MHz (mpp)	40	40	40	50	50	55	60	60	70	80	100	120	150
Constant Current Mode														
Load regulation 0 ~ 100% (mA)		10	10	10	8	8	7	7	7	6	5	5	5	5
Line Regulation (mA)		2	2	2	2	2	2	2	2	2	2	2	2	2
Ripple (At full load)	BW=300 kHz (mArms)	25	25	20	20	20	20	18	18	15	15	15	15	15
	BW= 5Hz~1MHz (mArms)	3	3	3	3	3	3	3	3	3	3	3	3	3
	20 MHz (mApp)	200	150	150	120	110	100	90	85	70	60	50	35	30
Remote sense drop (V)		1	1	2	2	2	2	2	2	2	2	5	5	5
Programming Speed (into resistive load)														
Rise time (10% to 90%)	100% load (ms)	20	25	30	35	40	45	50	70	100	150	175	250	275
	10% load (ms)	18	22	25	30	35	40	45	63	95	140	165	240	260
Fall time (90% to 10%)	100% load (ms)	20	20	22	22	25	35	50	80	100	180	200	220	250
	10% load (ms)	200	210	225	240	250	350	400	600	800	850	1000	1200	1500
	No Load (s)	1.2	1.2	1.5	2.0	2.5	3.0	3.5	4.5	6	8	10	12	15
Temperature Coefficients	CV	100 ppm/°C (after warm up of 30 min and during 8 Hrs)												
	CC													
Output Stability	CV	100 ppm (after warm up of 30 min and during 8 Hrs)												
	CC													
Analog Programming (Rear panel 25 pin D connector)														
Programming	Voltage	0 ~ 5 V/, Accuracy: ± 0.5 % of Vrated, Input Impedance: 1 MΩ												
	Current	0 ~ 5 V/, Accuracy: ± 1 % of Irated, Input Impedance: 1 MΩ												
Monitoring	Voltage	0 ~ 5 V/, Accuracy: ±1 % of Vrated, Output Impedance: <150 Ω / 4 mA max												
	Current	0 ~ 5 V/ Accuracy: ±1 % of Irated, Output Impedance: <150 Ω / 4 mA max												
V reference		5.1 V ± 15 mV												
Status outputs		Power Supply : OK = Logic 1 (High),												

		PSAe 16-200	PSAe 20-160	PSAe 32-100	PSAe 40-80	PSAe 60-52	PSAe 80-40	PSAe 100-32	PSAe 120-26	PSAe 160-20	PSAe 300-10	PSAe 600-5	PSAe 800-4	PSAe 1000-3
		AC Fail = Logic 0 (Low), DC Fail : Logic 0 (low) for DC fail by ± 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, Remote Status : Remote = Logic 1, Local = Logic 0												
Remote shutdown		+5 V												
Front Panel														
Controls		Mains ON/ OFF, Voltage and Current setting with Encoder (Coarse, Fine and Superfine) Switch Settings : Set, OVP Setting & Output												
Indicators		LEDs for : Set, CV, CC, Output Status; Messages on Display: Voltage & Current Set Value, Voltage & Current Read Value, Over Voltage, AC-Fail, Over Temperature												
Display														
Accuracy		Voltage : ± (0.5% + 2D), Current : ± (0.5% + 2D)												
Scale	Voltage (V)	0-16.00	0-20.00	0-32.00	0-40.00	0-60.00	80.00	0-100.0	0-120.0	0-160.0	0-300.0	0-600.0	0-800.0	0-1000
	Current (A)	0-200.0	0-160.0	0-100.0	0-40.00	0-53.30	40.00	0-32.00	0-26.70	0-20.00	0-10.70	0-5.33	0-4.00	0-3.20
Resolution	Voltage	0.01V	0.01V	0.01V	0.01V	0.01V	0.01V	0.1V	0.1V	0.1V	0.1V	0.1V	0.1V	1V
	Current	0.1A	0.1A	0.1A	0.01A	0.01A	0.01A	0.01A	0.01A	0.01A	0.01A	0.01A	0.01A	0.01A
Protections		Over voltage, Over Current, Short Circuit, Over temperature												
Output Terminals		Bus bar with M5 bolts												
Mains Input		207 ~ 270V 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												
Safety		Insulation: Input to Output: 3750 V for 1 min Input to case: 2500 Vrms, Output to case: 600 V Insulation resistance: 100 MΩ at 25°C, 70% RH, 500 Vdc												

	PSAe 16-200	PSAe 20-160	PSAe 32-100	PSAe 40-80	PSAe 60-52	PSAe 80-40	PSAe 100-32	PSAe 120-26	PSAe 160-20	PSAe 300-10	PSAe 600-5	PSAe 800-4	PSAe 1000-3
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												
Standard Interfaces	Analog Programming												
Standard Accessories	Mains Cable												

Notes:

1. Unit warm up time is 30 min.
2. Sensing at the rear panel of the power supply unit at sense terminals.
3. Minimum output voltage guaranteed to maximum of 0.2% Vrated.
4. Minimum output current guaranteed to maximum of 0.4% Irated.
5. For 0 ~ 10V analog programming, please contact us.

Subject to change without notice

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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	bangalore@scientificindia.com	
Chennai	044-42054180	chennai@scientificindia.com	
Gujarat	+917567463752	gujarat@scientificindia.com	
Hyderabad	+917095228811	hyderabad@scientificindia.com	
Kanpur	+919981329105	up@scientificindia.com	
Kolkata	+919673162333	kolkata@scientificindia.com	
Mumbai	+919850901735	mumbai@scientificindia.com	
New Delhi	+918770013379	ndelhi@scientificindia.com	
Pune	+919603828884	pune@scientificindia.com	