

DUBAS DC Power Supply



DUBAS Profile

Dubas started its operations at Bangalore in 1988. Dubas specializes in the design and manufacturing of complex power electronics products and systems, with core strength in power conversion, power quality and power conditioning technology.

The company is a front runner in the PWM technology in the AC-DC conversion technique, even compared to the best of the world offerings. Dubas products are built on a DSP based digital technology platform employing PWM switching using IGBTs as switching devices across the product lines. Company has expertise in all technology topologies as well in the sub assemblies having a complete control on the product output.

The company has done many major installations in most critical applications, as well of national importance. Dubas has built products to comply with SEISMIC qualification tests (demanded by Nuclear and Atomic installations), MIL and JSS55555 qualification tests (demanded by Defence installations).

Dubas, being an indigenous product company in par with the current technology standards in the world, offers further advantage of meeting the Indian operating conditions and applications. With high capability in building custom specific products, Dubas has gained high recognition in complex Industrial and Defence applications.

Dubas products are built with high endurance capability and have reputation of given long life usage of the products. Dubas has its own pan India Service network providing critical product services through the life of products. Hundreds of Dubas products are serviced by Dubas even after 15 years of installations.

The company's factory and head office is located in the heart of Bangalore's Industrial area at Electronics City. The company has built up area of 30000 SFT, with excellent facilities for product design, manufacturing, and testing both linear and non-linear loads at the factory up to 250KW.

Dubas has installed over 20000 systems across 22 countries so far. Dubas has powered some of the most well-known and quality conscious users and is been approved by major consultants in India as well by some of the well-known International consultants.



Industrial AC & DC Power Systems • Defence Power Systems • Static Freq. Converters • Inverters • Customized Power Racks
Bidirectional Converters • Grid Interactive Systems • Power Emulators • Power Simulators • Active Harmonic Filters
Programmable Power Supplies • High Power Rectifiers • Static Power Conditioners • Active Power Factor Controllers

Dubas Engineering Private Limited

43 [P], Electronics City, Phase 2, Hosur Main Road, Bengaluru - 560100, India.

Email : info@dubaspower.com. url : www.dubaspower.com

Dubas Clientele

ABB ▪ ACC ▪ AIRTEL ▪ BPCL ▪ BEL ▪ BARC ▪ BHEL ▪ BANGALORE METRO ▪ BOSCH ▪ BRAHMOS AEROSPACE ▪ CENTER FOR AIRBORNE SYSTEMS ▪ CARLZEISS ▪ CAIRN ENERGY ▪ CIPLA ▪ CISCO ▪ COCA COLA ▪ COLGATE PALMOLIVE ▪ CUMMINS ▪ DELL DPT. OF SPACE ▪ DRDO LABS ▪ DR. REDDY'S LAB ▪ DUPONT ▪ ENGINEERIS INDIA LTD ▪ ERICSSON ▪ ESSAR ▪ FORD ▪ FESTO ▪ GAIL ▪ GE ▪ GODREJ ▪ GOOGLE ▪ GOLDMAN SACHS ▪ GLENMARK ▪ HAL ▪ HEWLET PACKARD ▪ HPCL ▪ HCL TECHNOLOGIES ▪ HINDUSTAN LEVER LTD ▪ HONEYWELL ▪ IFB ▪ INDIAN RAILWAYS ▪ INFOSYS ▪ ISRO ▪ JET AIRWAYS ▪ KPTCL ▪ L & T ▪ LEELA PALACE ▪ MANIPAL HOSPITAL ▪ NPL ▪ NOKIA ▪ NESTLE ▪ NTPC ▪ NPCIL ▪ OIL INDIA ▪ OTIS ▪ ONGC ▪ PHILLIPS ▪ PUNJ LLOYD ▪ RBI ▪ RELIANCE ENERGY ▪ SIEMENS ▪ TCS ▪ TATA PROJECTS ▪ TATA CONSULTING ENGINEERS ▪ UHDE INDIA ▪ WHIRLPOOL ▪ YAHOO ▪ ZYDUS

Dubas Highlights

- ✓ 100% Indigenous manufacturing facility
- ✓ Make In India for over 3 decades
- ✓ Proven track record in power electronics
Products and customized solutions
- ✓ Installation base of Dubas equipments across all
verticals of Industry
- ✓ PAN India Service Network



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DUBAS DC Power Supply (5KW, 80V, 150A)

Data Sheet		
S. No	Technical Parameter	Description
1	Input Voltage	1 ϕ - 2 Wire, 230V \pm 10%
2	Frequency	50Hz \pm 5%
3	Input Power Factor	\geq 0.98 at rated load, nominal input voltage
4	Current distortion at rated load, nominal input	\leq 5%
5	Line Regulation	Voltage: \leq 0.01% FS
		Current: \leq 0.05%FS
6	Load Regulation	Voltage : \leq 0.02% FS,
		Current: \leq 0.05%FS
7	Setup Resolution	Voltage : 0.001 V
		Current : 0.01A
8	Readback Resolution	Voltage : 0.001 V
		Current : 0.01 A
9	Setting Accuracy	Voltage : \leq 0.05% + 0.05%FS
		Current: \leq 0.1% + 0.1%FS
10	Readback Accuracy	Voltage : \leq 0.05% + 0.05%FS
		Current : \leq 0.1% + 0.1%FS
11	Setting Temp. Coefficient	Voltage : \leq 50PPM/ $^{\circ}$ C
		Current : \leq 200PPM/ $^{\circ}$ C
12	Readback Temp. Coefficient	Voltage : \leq 50PPM/ $^{\circ}$ C
		Current : \leq 200PPM/ $^{\circ}$ C
13	Output Power at rated Temperature	5kW (80V / 150A)
14	Output Current	+/- 150A (Can source or sink current of 150A)
15	Output voltage adjust (Through Local HMI)	20 - 80VDC
16	Output current adjust (Through Local HMI)	30 - 150A
17	Rise Time	Full Load: \leq 30ms
18	Fall Time	Full Load: \leq 15ms
19	D.C volt regulation from no load to full load	\pm 0.1% of Full scale
20	Input to Output Isolation Provided	Yes, Through Galvanized Isolation Transformer
21	Setup Stability 30 min	Voltage : \leq 0.05% + 0.05%FS
		Current: \leq 0.2% + 0.2%FS
22	Setup Stability 8 Hour	Voltage : \leq 0.05% + 0.05%FS
		Current: \leq 0.2% + 0.2%FS

23	Readback Stability 30 min	Voltage : $\leq 0.05\% + 0.05\%FS$
		Current: $\leq 0.2\% + 0.2\%FS$
24	Readback Stability 8 Hour	Voltage : $\leq 0.05\% + 0.05\%FS$
		Current: $\leq 0.2\% + 0.2\%FS$
25	Maximum ripple voltage	< 0.05% RMS of Full scale (Measurement Filter @100kZ Low pass)
26	Maximum ripple current	< 0.05% RMS of Full scale (Measurement Filter @100kZ Low pass)
27	Measurement Accuracy	Voltage: $\pm 0.05\%$ of full scale Current: $\pm 0.05\%$ of full scale
28	Control Accuracy	Voltage: $\pm 0.05\%$ of full scale Current: $\pm 0.05\%$ of full scale
29	Efficiency at Rated load and at max output voltage, nominal input (Source)	$\geq 92\%$
30	Operating temperature	0°C to 50°C
31	Storage Temperature	0°C to 70°C
32	System Interface	>> RS485 / CAN / USB
33	Humidity	90% Non-condensing
34	Local Human Machine Interface (HMI-Local)	4" Resistive Touch Screen display, Performs following basic functions, Displays input, output parameter & Status/ faults of the DCPS, Output voltage / Current adjustment.
35	Max Operating Altitude	1000mts above sea level
36	Functional Details	a) DCPS can be programmed for Cyclic charge / discharge test b) DCPS have a battery emulator feature c) DCPS can be programmed for Cyclic charge / discharge test d) DCPS can be programmed for CC, CV & CP mode of operation
37	Indications & Alarms (On front Panel)	Input healthy, DCPS output ON, DCPS Fault, General alarm
38	Noise Level	<75db @ 1mtrs surround (with all fans running)
39	Cooling method	Forced Air (Using cooling Fans)

Note: Research and development is a continuous process at Dubas. As such specifications are subject to change as part of regular improvement objective.