

## ANNEXURE 'A' FOR DC Power Supply

S. No.	Name of Parameter	Specifications
1	Power supply type	Programmable DC power supply
2	No of output Channels	Minimum: Three
3	Output Voltage	Output 1: 0 to 60V Minimum Output 2: 0 to 60V Minimum Output 3: 0 to 5V Minimum
4	Power output	Minimum: 370 W
5	Output current	Output 1: 0 to 3 A Minimum Output 2: 0 to 3 A Minimum Output 3: 0 to 3 A Minimum
6	Isolated Channels	All output channels should be Isolated and independent.
7	Load regulation	Voltage : $\leq 0.01\% + 3 \text{ mV}$ or better Current : $\leq 0.01\% + 3 \text{ mA}$ or better
8	Line regulation	Voltage : $\leq 0.01\% + 3 \text{ mV}$ or better Current : $\leq 0.01\% + 3 \text{ mA}$ or better
9	Output ripple and noise ,Vpp	Output 1: $\leq 4 \text{ mVpp}$ or better Output 2: $\leq 4 \text{ mVpp}$ or better Output 3: $\leq 4 \text{ mVpp}$ or better
10	Output ripple and noise,Vrms	$\leq 1 \text{ mVrms}$ or better
11	Output ripple and noise,Irms	Output 1: $\leq 4 \text{ mA}$ or better Output 2: $\leq 4 \text{ mA}$ or better Output 3: $\leq 4 \text{ mA}$ or better
12	Programming Accuracy	Voltage : $\leq 0.03\% + 10 \text{ mV}$ or better Current : $\leq 0.1\% + 5 \text{ mA}$ or better
13	Readback Accuracy	Voltage : $\leq 0.03\% + 10 \text{ mV}$ or better Current : $\leq 0.1\% + 5 \text{ mA}$ or better
14	Programming Resolution	Voltage: $\leq 1 \text{ mV}$ or better Current : $\leq 1 \text{ mA}$ or better
15	Readback Resolution	Voltage: $\leq 1 \text{ mV}$ Current : $\leq 1 \text{ mA}$
16	Operating temperature range	0 °C to 40 °C
17	Temperature Coefficient $\pm(\% \text{ of output} + \text{offset})/^{\circ}\text{C}$	Voltage: $\leq 0.01\% + 1 \text{ mV}$ or better Current : $\leq 0.02\% + 1 \text{ mA}$ or better
18	Protection features	Overvoltage (OVP) & Overcurrent (OCP) Protection
19	Load transient Recovery time	$\leq 50 \mu\text{s}$
20	Display	Vacuum fluorescent display or LCD
21	Connectivity	minimum USB/RS-233
22	PC based control & Data logging	Required
23	Minimum Accessories	As per the Company Packaging (Minimum: 1) Indan Power Cord. 2) Calibration Certificate. 3) User Manual / Guide. 4) Software ).
24	AC Input	230 V, 50 Hz India Type
25	Warranty	Minimum 3 years standard
26	EMI or EMC standards	Required
27	Product Support	Required
28	Installation	Required
29	Authorization Certificate	Vendor should have Authorized Distributor Certificate from the Manufacturer. Vendors should attach the detailed technical Datasheet of the product offered by them.