2kW Programmable DC Power Supply

Indent No. & Date: - MMK/CNS/18-19/08, Dt: 25.05.18

Technical Specification:-

Sr. No.	Parameter	Description
1.	Input Voltage	240 Vac, Single Phase (Operating range 216-264 Vac)
2.	Output voltage	0-2000 VDC
3.	Output current	0-1 ADC
4.	Power Factor (100% load)	> 0.70
5.	Efficiency	88% at full load
6.	Load Regulation (0 – 100%)	Voltage Mode: ± 0.01% of full scale Current Mode: ± 0.04% of full scale
7.	Line Regulation (90 – 265 VAC)	Voltage Mode: ± 0.004% of full scale Current Mode: ± 0.02% of full scale
8.	Ripple + noise	5500m Vrms (with high slew rate option)
9.	Temperature Coefficient per Deg. Cent.	0.04 % / °C of maximum output voltage 0.06 % / °C of maximum output current
10.	Load Transient Response	2ms to recover within ±1% of full scale output, with a 50% to 100% or 100% to 50% step load change
11.	Slew rate	4 ms for output voltage change from 0 to 63% 8 ms for output current change from 0 to 63%
12.	Programming accuracy	Voltage: 0.075% of full scale voltage Current: 0.075% of full rated current
13.	Rack size	19″, 2U
14.	Interface	RS232 serial interface, 37-pin isolated analog/ digital I/O
15.	Front Panel	LED display : Output voltage, output current, voltage and current set point, Over voltage trip and over current trip Indicators : Interlock, External input voltage beyond limits, under voltage AC input, over temperature condition Controls : Front panel control, External voltage/current control, Computer control
16.	Safety standard	EN61010-1:2001-02
17.	EMI EMC standard	EMC standard: 2004/108/EC Generic Emission standard : EN61000-6-3:2001 EN61000-6-3:2001 Generic Immunity standard: EN61000-6-1:2001
18.	Operating temperature	0 to 50°C
19.	Protection	Over voltage, Over current, Over temperature, Short circuit

Terms & Conditions:

Your quote should mention/include the following:

- Kindly send technical and financial bid separately in sealed envelopes.
- Maximum discount if any should be offered and mentioned.
- Quoted price should include the cost for installation, Three Year warranty, AMC and required accessories
- Validity of the quote at least for 90 days.
- FOB/FCA (indicating port of shipment) values should be quoted separately if import is required. For quotes in INR, the price quote should be for delivery at Kanpur.
- The quote should cover insurance for transport up to Kanpur.
- Indian agency commission if applicable (should be certified by the principal if no agency commission is applicable) in case of import.
- Authorization certificate from the principal if you are a local agent.
- Terms and conditions for the payment, including the banker's name of the principal and the account number, if any, for electronic transfer.
- Payments terms: 100% after successful installation and commissioning for Indian manufacturer.
- Mere compliance is not sufficient; the technical details must be supported by detailed technical datasheets of the offered product(s) (in technical bid).
- Users' list with contact address in technical bid.
- Concessional rate of GST (@5%) will be applicable with reference to Notification No. 45/2017- Central Tax (Rate) dated 14/11/2017 for Indian manufactures. We will provide relevant certificate for this purpose. On import items for research purpose presently the GST applicable is 0% (zero).
- In case of import items, authorized service provider within India must be available & all service requests must be attended within 48 hours of request.
- The Institute reserves the right of accepting and rejecting any quotations without assigning any reason.

Note: Only principal manufacturers or authorized representatives are requested to send the quote along with proper certificates. The envelope should be marked as "Quote for 2kW Programmable DC Power Supply".

Quotation must reach to the following address before 5 PM on June 18, 2018:

Dr Manish Madhukar Kulkarni

Centre for Nanosciences Indian Institute of Technology Kanpur, Kanpur 208016 (UP), INDIA