



विद्युत अभियांत्रिकी विभाग  
DEPARTMENT OF ELECTRICAL ENGINEERING  
भारतीय प्रौद्योगिकी संस्थान कानपुर  
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To,  
M/s -----

Enquiry no:-NaMPET/EE/PACPS/2015-2016/

Dated: 01/05/2015

## Programmable A.C Power Source

### Input Parameters

Voltage : 3 $\Phi$  AC 440-480V Line-Line, 4-Wire, 50 Hz  
Chassis must be earthed

### Output Parameters

Voltage : 3 $\Phi$  AC 520V rms Line-Line, DC (0-400V) & AC+DC or Higher  
Frequency : 16 HZ to 800 HZ or higher  
Frequency Resolution : 16 to 85 Hz; Resolution-0.01Hz above, 85Hz; Resolution -0.1Hz.  
Harmonic Synthesis : 40<sup>th</sup> Harmonics or above @ 50 Hz fundamental.  
Power : 30kVA or more with Regenerative, bidirectional current (source & sink Current).  
Phase Output : 1 or 3 switchable, Neutral: Floating, & Direct Coupling (No Transformer)  
Application Software : Windows Compatible, Can perform all output Parameters, Generate Harmonics Waveforms. Arbitrary Waveform Generational and DC Transient Generation, harmonic Analysis etc.  
Harmonic Distortion : Less than 0.5% from 16 - 66 Hz, Less than 1% from 66 - 500 Hz, Less than 1.25% above 500 Hz.  
(Linear)  
Protection : Over Voltage, Over Current, Short Circuit Protection & Over temperature  
Wave forms : Sine, Pi: Sine, Square, Clipped sine, User defined.  
Interfacings : USB, Ethernet  
Steady State AC RMS Current in Regeneration Mode: 66.6 Arms/ $\emptyset$

Kindly send your quotation in sealed envelope on or before May 19, 2015 in favor of "Dr. P. Sensarma, Department of Electrical Engineering IIT Kanpur 208016". The Indenter has right to accept or reject the tender.

*akbasu*

(Amit Kumar Basu)

Incharge

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National Mission for Power Electronics Technology (NaMPET) Laboratory

WL-110

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