

प्रसारभारती / PRASAR BHARATI
(भारतकालोकसेवाप्रसारक/ INDIA'S PUBLIC SERVICE BROADCASTER)
अपरमहानिदेशककाकार्यालय(अभि.) (द.क्षे..) / O/o. ADDL. DIRECTOR GENERAL (E)(SZ)
आकाशवाणीएवंदूरदर्शन / AKASHVANI& DOORDARSHAN
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No. J-11022/15/2026-PURCHASE-ADG(E)-(SZ)

Date: 08.10.2026

Clarification to Bidder's queries

Sub: Supply of 10 Nos of BPEU 3007 AC/DC Switching Power supply for DBE FM Transmitters-reg.

Ref: GeM Bid No. GEM/2026/B/8011463

The point-wise reply to the queries raised by firms is as below.

1. **Query:** ORing mechanism: Kindly confirm if two power supplies are used in parallel.

Reply: No

2. **Query:** Output voltage: Kindly confirm if the voltage can be varied from 20 to 50 VDC, and what is the nominal voltage?

Reply: The nominal DC output voltage varies from +33 V to +45 V

3. **Query:** Kindly share photos of the existing unit.

Reply: Attached for reference only.

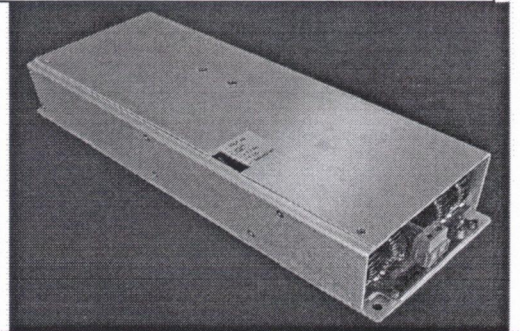

V.Dineshkumar DDE

For ADG (BO) SZ

वी.दिनेश कुमार / V. DINESH KUMAR
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स्वामी शिवानंदा शालै / Swami Sivananda Salai
चेन्नै / Chennai - 600 005

GENERAL FEATURES

AC/DC Converter 3000W Multi-Output	
Active Power Factor Correction	
High Efficiency	
Universal Input Voltage	Single-Phase 220 / 240VAC
Main Outputs	20 ÷ 50V/60A
Aux. Outputs	48V/2.5A , 24V/1.2A
Current & Voltage Monitors	
Remote Enable / Disable	
Baseplate / Air Cooling	

**ELECTRICAL SPECIFICATIONS****INPUT**

Voltage	177 ÷ 264VAC Single-Phase
Current	≤ 20A @ full-load @ 177VAC Single-Phase
Frequency	47...63Hz
Efficiency	≥ 93% @ 2600W load (45V 58A) @ 230VAC
Power Factor	> 0,95 @ full-load @ 230VAC
Inrush current	≤ 30Apk @ 230VAC

OUTPUTS

OUTPUT	VOLTAGE (VDC)	I nom. (A)	I pk. (A)	TOLERANCE (%)	RIPPLE (%)	POWER nom. (W)
V1	+20 ÷ 50 *	+30 @ 50V **	33	≤ 2	< 3	1500
V2	+20 ÷ 50 *	+30 @ 50V **	33	≤ 2	< 3	1500
V3***	+48	2,5	3.0	≤ 5	≤ 5	120
V4***	+24	1,2	1,4	≤ 5	≤ 5	30

* V1, V2 adjustable by multi-turns trimmer set on board or by remote 0÷5V external signal (see procedure below – JP1).

** I_{max} total V1 – V2 = 60A @ 50V / 62A @ 49V / 65A @ 45V.

*** Internal OR diode in series on positive pole.

PROTECTIONS

Over-Load	Constant-Current
Short-Circuit	Hicc-up mode (auto recovery)
Over-Voltage (V1, V2)	Set point = 58V ± 5%, not automatic return to operation
Over-temperature	Set point = 70°C @ baseplate , 100°C @transformer. Automatic return to operation with hysteresis
General:	Provide external fuses or equivalent protection on AC main

ALARM / SIGNALS / CONTROLS

Output V1, V2 current monitor	Linear analogic signal 100mV → 1A; 5mA max. supply current
Output V1, V2 voltage monitor	Linear analogic signal 100mV → 1V; 5mA max. supply current
Over Temperature Alarm	Open collector, 4mA max. sink current ; Alarm = Low (Power supply V1 still ON)
Over Temperature Protection	Open collector, 4mA max. sink current ; Alarm = Low (Power supply V1 OFF)
Power Fail - main under-voltage	Open collector, 4mA max. sink current ; Alarm = Low (Power supply V1 OFF)
Remote Enable output V1, V2	Connected to COM = Power-On, floating = Off (sink 5 mAmps min.)
Remote Enable output V3	Connected to COM = Power-On, floating = Off (sink 5 mAmps min.)

DOCUMENT :	D-3007-ST02	AUTHOR/DATE :	D.Bonfanti 22/07/14
REVISION :	P2	APPROVED/DATE :	W.Borgonovo 22/07/14

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THERMAL CHARACTERISTICS

Operating Temperature	-10 ÷ +45°C (see Thermal Protections)
Storage Temperature	-20 ÷ +85°C

STANDARDS / REGULATIONS

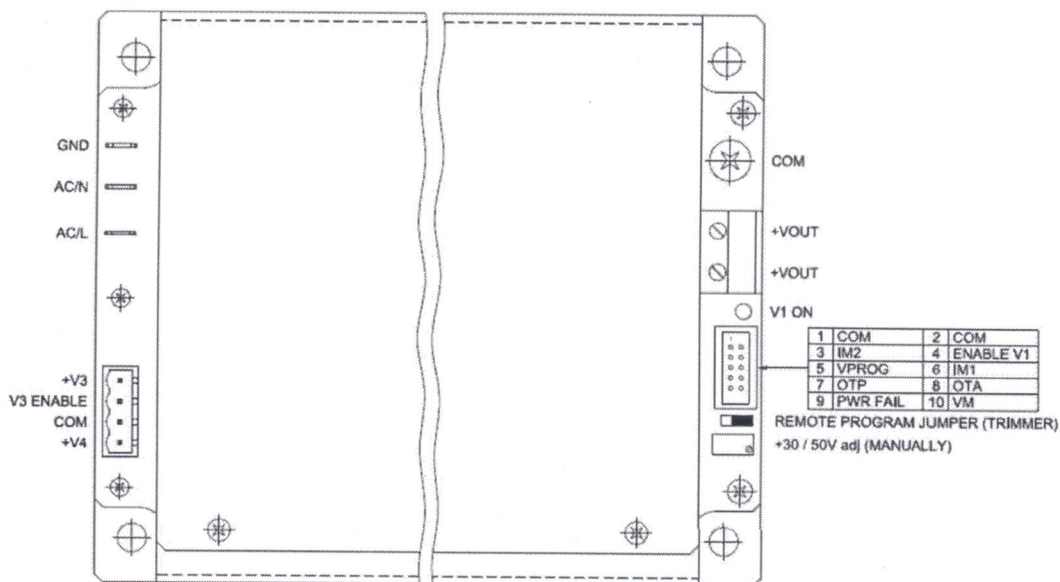
Safety	EN60950-1	
EMI/EMC	EN55022	Conducted Noise (Industrial level)
	EN61000-4-4	Fast-Transients
	EN61000-4-5	Surges (± 2kV common ± 1kV differential)
	EN61000-4-11	Voltage-Dips
	EN61000-3-2	Harmonics Current

CE Mark

CONNECTIONS

INPUT	N° 3 Fast-on male connectors (6,35 x 0,8mm) L, N, PE
OUTPUT	V1, V2: 4 pole screw type terminal block (2 poles for Positive and 2 poles for Negative) V3, V4: 4 pole pluggable screw type terminal block
SIGNALS / CONTROLS	Male AMP MODUII type 10 pole dual in line connector

CONNECTIONS / SCHEME



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