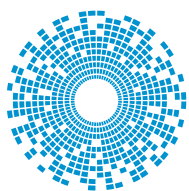


# Power Solutions for Broadcasting



**bel** POWER  
SOLUTIONS &  
PROTECTION

a bel group

## BPEU Series AC-DC Bulk Converters

The BPEU Series of AC-DC power supplies were designed to power radio-frequency power amplifier (RFPA) applications in the Broadcasting industry.

### Features & Benefits

- Single, dual or multiple outputs
- Output power up to 3500 W
- All models incorporate active PFC
- Current and voltage monitoring
- Multiple protections



MODEL	VIN	VOUT	# OF OUTPUTS	OUTPUT POWER	DIMENSIONS	PF	EFFICIENCY	COOLING
BPEU2413	185-264 VAC (1P) 175-240 VAC (3P)	2x 45-51 V @ 12 A 1x 45-51 V @ 1.5 A 24 VDC @ 1.5 A 5 VDC @ 0.8 A	5	1400 W	260 x 210 x 45 mm	0.99	91 %	Baseplate + Air Cooling
BPEU2000	185-264 VAC (1P)	40-50 VDC @ 40 A 12 VDC @ 0.5 A	2	2000 W	128 x 350 x 72 mm	0.99	90 %	Air Cooling
BPEU2004	185-264 VAC (1P)	20-50 V @ 40A 48 V @ 1.3 A 24 V @ 0.8 A 44-46 V @ 3A	4	2200 W	124 x 340 x 41.5 mm	0.99	93%	Air Cooling
BPEU2452	185-264 VAC (1P)	48 V @ 40 A 12.5 V @ 1 A	2	2000 W	200 x 210 x 43 mm	0.98	93%	Baseplate Cooling
BPEU2451	185-264 VAC (1P)	2x 30-50 V @ 40 A 24 V @ 3.5 A	3	3000 W	128 x 350 x 72 mm	0.97	92%	Air Cooling
BPEU3300	185-264 VAC (1P) 170-242 VAC (3P)	4x 50 V @ 23.5 A 48 V @ 2.5 A 5 V @ 0.5 A	6	3300 W	140 x 400 x 73 mm	0.98	90%	Baseplate + Air Cooling
BPEU3304	185-264 VAC (1P)	20-50 V @ 65 A 48 V @ 2.5 A 24 V @ 1.2 A	3	3500 W	140 x 400 x 73 mm	0.98	92%	Baseplate + Air Cooling

## FXP/FXC Series Bulk Power Supplies

The Bel Power Solutions FXP/FXC Series is a powerful resource for any company seeking higher power levels to automatic test equipment, broadcasting, telecom, data communications and other distributed power designs.

### Features & Benefits

- Three-phase AC input (180 to 264 V or 342 to 528 V)
- Suitable for 3U or 5U height mounting
- Can be paralleled up to 210 kW
- Single-wire current share or Droop current share
- Remote voltage adjustment and current monitoring
- Overtemperature, overload, and overvoltage protection
- LED supply status indicators
- Current share control for up to 30 units
- Front panel selectable-input-range
- Standard & customized rack adaptors available



## FNP/FXP Series

The FNP and FXP Series suite of shelf-mounted AC power devices can be configured up to three units in a 1U rack (FNR-3-48G or FXR-3-48G), to drive up to 5400 W of power. The series are well-suited to aiding a wide variety of telecom, datacom, broadcasting, distributed power and server applications in reducing operating expenses.

### Features & Benefits

- Universal AC and DC inputs
- 600 W to 1800 W of output power
- 1U form factor



MODEL	OUTPUT POWER	DIMENSIONS [mm]	COMPATIBLE SHELF
FNP600	600 W	298.2 x 85.8 x 40.6	FNR-5-48
FNP1000	1000 W	298.2 x 85.8 x 40.6	FNR-5-48
FNP1500	1500 W	279.4 x 141.2 x 40.5	FNR-3-48G
FNP1800	1800 W	279.4 x 141.2 x 40.5	FNR-3-48G
FXP1500	1500 W	304.8 x 141.2 x 40.5	FXR-3-48G
FXP1800	1800 W	304.8 x 141.2 x 40.5	FXR-3-48G

## TCP3500 Series High Power AC-DC Power Supply

Fanless adjustable power supply, the TCP3500 Series of AC-DC converters employ a PFC front end stage and an isolated DC-DC stage to convert world-wide three-phase input voltage to a low DC output voltage.

### Features & Benefits

- World-Wide 3-phase Input Voltage Range (nom. 115 - 277 V / 200 - 480 V)
- High Power Density 16 W/in<sup>3</sup>
- Parallel Operation up to 16 Units (50.4 kW)
- Cold-Plate Cooling System
- Advanced Performance for Fast Dynamic and Pulsed Load up to 100 kHz (Optional)
- RS485 Interfaces
- Wide Adjustable Output Voltage Range 5 - 60 V
- Ready for Digital Output Power Control via separate fast RS485
- High reliability and long useful life

### Applications

- Battery chargers
- Bulk power systems
- Industrial printers
- Laser cutting
- Welding
- Engraving and marking
- Drilling
- Cladding
- Surface treatment
- Rapid prototyping



## TCR-4-48G 19" Power Rack

### Features & Benefits

- 19" Rack with water-cooling Base Plate compatible with TCP Series
- Maximal Configuration up to 4 Units (14 kW)
- Parallel operation capability up to 4 racks (50.4 kW)
- USB Interfaces for system monitoring and control via PC
- Auxiliary output 24 V / 120 W
- 3-phase Solid State Relay for power modules AC input driving
- Input and Output water temperature measurement
- Low Inductance DC output busbars construction allows Pulse Load operation up to 100 kHz
- Optionally 3.2" Touch Screen Display on front panel with Smart monitoring and control menu



## TXP3500 Series High Power AC-DC Power Supply

The TXP Series of fan cooled power supplies convert a universal 3-phase AC input to an adjustable, wide range DC voltage. This industrial power supply unit enables monitoring of all electrical parameters and allows control of the PSU from external system controller.

### Features & Benefits

- World-Wide 3-phase Input Voltage Range (nom. 200 to 480 Vrms)
- Power Factor > 0.94
- High Power Density 16 W/in<sup>3</sup>
- 93% Typical Efficiency
- Parallel Operation of up to 8 Units (28/32 kW)
- Serial Operation of up to 4 Units
- User Replaceable Fan
- -20 to 55°C of Ambient Temperature
- RS485 / CAN bus Interface
- Adjustable Output Voltage Range
- Auxiliary Output 12 V / 0.8 A
- Active or Passive Current Sharing



## ABC/MBC Series AC-DC Open Frame Power Supplies

The ABC/MBC series of open-frame power supplies are available in a wide-variety of power levels and output voltages suitable for many broadcasting applications.

### Features & Benefits

- Output power from 40 - 600 W
- Universal input voltage 90 - 264 VAC
- Variety of single and multiple output voltages 3.3 - 58 VDC
- High Convection Rating
- 20°C to +70°C Operation



## Isolated Bricks

The Bel Power Solutions product portfolio offers a wide range of Isolated DC-DC Bricks of standard brick sizes (sixteenth, eighth, quarter) with a range of power density and features that can be used in broadcasting applications.



## Bel Power Solutions

Bel Power Solutions offers a wide range of high-power AC-DC products up to 7 kW in a single unit. These products offer single-phase and three-phase inputs to serve a wide variety of industrial, broadcasting and telecom applications. Bel Power Solutions is certified to both ISO9001 and ISO14001.



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