



E+I ENGINEERING GROUP

POWER DISTRIBUTION UNITS AND REMOTE POWER PANELS

A GLOBAL PROVIDER OF POWER
DISTRIBUTION SYSTEMS



POWER DISTRIBUTION UNITS

E+I Engineering's PDU is the most competitive design on the market. It offers the highest level of power density in the smallest possible footprint. E+I Engineering's innovative system and intelligent monitoring result in:

- Optimisation of floor space
- Significant saving on operating costs



Specification

Electrical

Transformer kVA	75 to 750, k-20, TP-1, optional CL-3 efficiency
Input voltage	600 & 480 @ 60Hz 3 phase, 3 wire plus ground
Output voltage	4208-120, 415-230 @ 60Hz 3 phase, 4 wire plus ground
200% neutral bus	
Transformer type	Dry wound, air cooled, copper or aluminium
Transformer specification	K20 Transformer with 150° maximum temperature rise as standard. Any transformer specification can be accommodated

Physical

- **Dimensions:** Vary according to the KVA rating of the transformer
- **Cable access:** Front only
- **NEMA 1 with removable side and rear panels**
- **Color:** Black sand finish. Optional colors are available at no additional cost or lead time

Monitoring

- **Standard monitor:** User friendly color touchscreen with revenue grade accuracy
- **Summary alarm with local audible and visual indication**
- **Communications:** Modbus, RTU, SNMP, TCP/IP
- **Thermal:** Transformer monitoring can be provided by means of PT100/1000 sensors.
Live accurate temperature monitoring can be provided via thermocouples allowing integration into the BMS/DCIM systems
- **Options:** Input and output cards, environmental monitoring, subfeed and panel circuit monitoring

Options

- BMS or DCIM system integration via Modbus TCP, SNMP and BACnet Protocols
- TVSS rated per site requirements
- Manual dual input and static switch input
- PQM with waveform capture
- Subfeeds and panels can be added to the standard cabinet to give you up to 6 circuit panels
- Multiple output options including bolt on subfeeds, I-Line panels and panelboards

REMOTE POWER PANELS

E+I Engineering's RPP is custom engineered to manage the most critical of applications in as small a footprint as possible. Boasting the highest level of performance and protection for your equipment, E+I Engineering's RPP is the most advanced design in the industry.

E+I Engineering's Power Distribution Units and Remote Power Panels have been designed to grow with your facility allowing for future expansion where necessary.

E+I Engineering's PDUs and RPPs are the most advanced design in the industry, providing power to critical applications in as small a footprint as possible.

Key Advantages

- E+I Engineering's PDUs and RPPs have been designed to grow with your facility, allowing you to plan for future expansion
- All components are accessible for ease of maintenance
- The system design facilitates thermal imaging and allows the installation of online based monitoring systems if necessary
- Incorporation of static transfer switches within the units ensures a changeover to alternate supply within 5-10msecs
- The use of large phase separation and close coupled transient suppression equipment ensures system security. The materials and construction methods used offer excellent arc-extinguishing properties.



Specification

Electrical

Input	3 phase, 4 wire plus ground
Input/ Output voltages	208/120VAC
Input frequency	60Hz
Input breaker	(1 or 4) 100% rated, 225A or 400A
Panel boards	SqD 225A, 42 or 84 pole rated at 208/120V for 'SqD QO' branch breakers ABB Proline TouchSafe, 42 or 84 circuits, 225A/200A, up to 480V

Physical

- **Dimensions:** 24" x 12" x 80" for 2 panelboard configurations (Free standing or wall mount)
- **Access:** Front only
- **NEMA 1 enclosure with door in door construction and lockable outer door**
- **Full or split hinged inner door**
- **Color:** Black sand finish. Optional colors are available at no additional cost or lead time

Options

- Oversized isolated neutral and separate isolated ground bar
- Branch circuit monitoring with support for multiple platforms including Modbus RTU, SNMP, TCP/IP, BACnet
- Local high-resolution display; standard and touchscreen available
- Units can be stand alone, wall mounted or attached to server cages
- Underfloor stand with conduit mounting plates for raised floor applications
- Units can be placed back to back to create a 24" x 24" RPP with full isolation between sides
- Conduit knockouts on top and bottom panels



E+I ENGINEERING GROUP

E+I Engineering USA Corp
[USA Manufacturing Location](#)

400 Supreme Industrial Drive
Anderson
South Carolina
29621

Tel: +1 864 375 1757

E+I Engineering Ltd.
[European Manufacturing Location](#)

Ballyderowen
Burnfoot
Co. Donegal
Ireland

Tel:
(UK) +44 (0)28 71353030
(ROI) +353 (0)74 9368719

Powerbar Gulf LLC
[Middle East Manufacturing Location](#)

N16/N17
Al Ghail Industrial Park
Ras Al Khaimah
PO Box 13229
UAE

Tel: +971 (0)72 216100

E+I Engineering Ltd.
[UK Central Office](#)

2/8 Victoria Avenue
London
EC2M 4NS

Tel: +44 (0)20 3206 1650

Email:
info@e-i-eng.com

WWW.E-I-ENG.COM