

Versatile and powerful solution for any application

The combination of cost-effective design, power density and reliability makes the Powerpack a product family that truly stands out and provides unparalleled network availability.

The versatility of the Powerpack rectifier means that it can be used in a wide variety of 48 V_{DC} and 60 V_{DC} applications across the globe.



POWERPACK RECTIFIER

48V – 60V / 5600W

Doc 241246.700.DS3 – v3

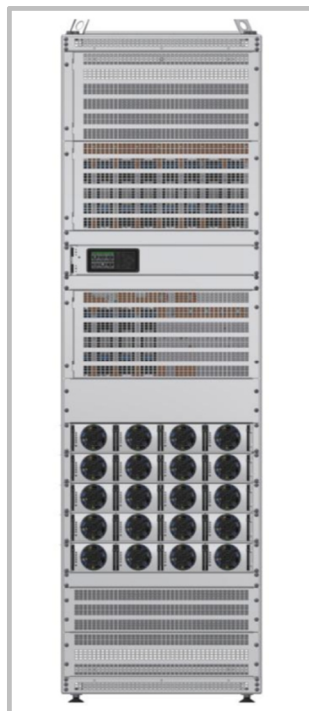
APPLICATIONS

TELECOM – FIXED

- CENTRAL OFFICE
- TELEPHONY SERVERS / SWITCHES
- FIBER OPTICS
- MICROWAVE
- CABLE
- BROADBAND
- BROADCAST
- DATACENTERS



SMARTPACK2 SYSTEM CONTROLLER



116KW POWER CABINET WITH POWERPACK RECTIFIERS

KEY FEATURES

- POWER DENSE
- HOT PLUGGABLE
- 3 PHASE INPUT
- HIGH EFFICIENCY
- APPLICATION FLEXIBILITY 6KW-3MW
- APPLICATION FLEXIBILITY 48V / 60V
- GLOBAL COMPLIANCE

POWERPACK RECTIFIER

48V – 60V / 5600W

| | |
|--|--|
| Model | 48-60V / 5600W |
| Part number | 241246.700 |
| INPUT DATA | |
| Voltage (nominal) | 400 V _{AC 3ph. L-L} |
| Voltage (operating range) | 340 - 440 V _{AC 3ph. L-L} |
| Frequency | 44 - 66 Hz |
| Current (maximum) @ nominal input, full load | < 12 A _{RMS} / < 9 A _{RMS} @ nominal V _{IN} |
| Power Factor | > 0.99 at nominal V _{IN} and 30-100% load |
| THD | < 5% at nominal V _{IN} and 50-100% load |
| Protection | Fuse in L1, L2 & L3, Varistor, Shutdown above 460 V _{AC 3ph. L-L} |
| OUTPUT DATA | |
| Voltage (default) | 53.5 V _{DC} / 67 V _{DC} |
| Voltage (adjustable range) | 42 - 72 V _{DC} / 58 - 72 V _{DC} |
| Power (maximum) | 5600 W (V _{OUT} = 48 - 72 V _{DC}) |
| Current (maximum) | 116 A _{DC} (V _{OUT} = 0 - 48 V _{DC}) |
| Current sharing | ±5% of maximum current from 10 to 100% load |
| Static Voltage regulation (10 - 100% load) | ±0.5% |
| Dynamic Voltage regulation | ±5.0% for 10-90% or 90-10% load variation, regulation time < 50ms |
| Hold up time, maximum output power | >10ms; output voltage > 44 V _{DC} |
| Ripple | < 200 mV peak to peak, 30 MHz bandwidth |
| Protection | Fuse, Short circuit proof, High temperature protection, Overvoltage shutdown |
| OTHER SPECIFICATIONS | |
| Efficiency @ nominal input | Up to 93.0% |
| Isolation | 3.0 kV _{AC} - input to output, 1.5 kV _{AC} - input to earth, 720 V _{AC} - output to earth |
| Visual Indications | Output LED: ON (red) --> Output voltage low or rectifier failure / OFF --> OK OVP LED: ON (red) --> Overvoltage on output / OFF --> OK Fan LED: ON (red) --> Fan failure / OFF --> OK Curr. L LED: ON (yellow) --> Over load warning (rectifier in current limit) / OFF --> OK Mains LED: GREEN --> rectifier on - no faults / RED --> Mains failure |
| Acoustic noise | < 55dBA at nominal input, full load and T _{ambient} = 30°C |
| Operating temperature / humidity | -40 to + 75°C [-40 to +158°F] / 5 - 95% RH non-condensing |
| Maximum output power derates above temp / to | 55°C [122°F] / 2200W @ 75°C[158°F] |
| Storage temperature | -40 to +85°C (-40 to +185°F), humidity 0 - 99% RH non-condensing |
| Cooling | 1 fan (front to back airflow, temperature and current controlled speed) |
| MTBF | > 350 000 hours, Telcordia SR-232 Issue1, metod III (a), T _{ambient} = 25°C |
| Dimensions[WxHxD] / Weight | 133 x 84 x 364mm (5.2 x 3.3 x 14.3") / < 5 kg (11 lbs) |
| DESIGN STANDARDS | |
| Electrical safety | UL 60950-1, EN 60950-1, CSA 22.2 |
| EMC | ETSI EN 300 386 V.1.3.3 EN 61000-6-1 / -2 / -3 / -4, EN 61000-3-2 |
| Environment | ETSI EN 300 019: 2-1 (Class 1.2), 2-2 (Class 2.3) & 1-3 (Class 3.1) RoHS and WEEE compliant Seismic Zone 4 (Telcordia GR 63 Core) |