



ETR+ 948

Efficient : Trusted : Reliable

PRODUCT DESCRIPTION

The fully Digital Controlled ETR+ 948 rectifier module is designed and optimized for the demanding power needs across different applications and industries.

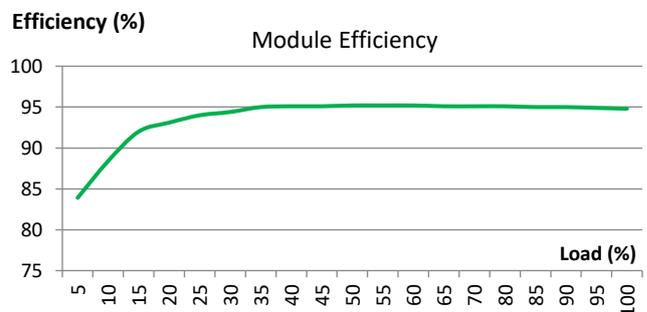
The modularity design, coupled with its cost-effectiveness package, power density and reliability, ensures the overall availability and performance of the system solution.

KEY FEATURES

- **Fully Digital Controlled**
Reduces component count and improves reliability
- **Modular, Scalable and Hot Swappable**
Flexible installations
- **High Power Density**
Reduces footprint
- **Highly Efficient @ up to 95%**
Reduces losses and lowers operating costs
- **Front-to-back Airflow**
Unobstructed scalability of shelves
- **Excellent EMC Performance**
Lower interference and excellent susceptibility
- **Wide Input Voltage Range**
Continued operation in demanding grid conditions
- **Wide Temperature Range**
Applications in harsh climatic conditions
- **Compliant with Global Standards**
Delivers quality, performance and reliability in power solutions.

APPLICATIONS

- Macro cell BTS
- Microwave
- LTE / WiMax
- FTTX
- Broadband Access
- Optical Fibre Transmission System
- IDC (Internet Data Centres)



TECHNICAL SPECIFICATIONS

PART NUMBER	381010.100
Capacity	900W
AC INPUT	
Voltage Range	90Vac to 300Vac (Nominal @ 175Vac to 275Vac)
Frequency	45Hz to 65Hz
Maximum Input Current	Max 5.5Arms @ 175Vac (full load)
Power Factor	≥0.99 @ rated input and >50% load
Input Protection	Varistors for transient protection, Mains Fuse for both input lines Shutdown @ > 300Vac with hysteresis
DC OUTPUT	
Output Voltage	53.5Vdc (adjustable 42Vdc to 58Vdc)
Output Power (Maximum)	900W @ nominal input
Output Current (Maximum)	18.75A @ 42- 50Vdc with nominal input
Peak Efficiency	up to 95%
Current Sharing	≤±5% of max current from 50% to 100% load
Static Voltage Regulation	≤±0.6% from 10% to 100% load
Dynamic Voltage Regulation	≤±5% for 10%-90% or 90%-10% load variation, regulation time <50ms
Hold Up Time	>15ms, output voltage >42 Vdc @ 300W
Ripple and Noise	≤200mVp-p, 20MHz bandwidth ≤2mVrms psophometric
Output Protection	Overvoltage shutdown; hot plug-in, inrush current limiting; high temperature protection; short circuit proof
CONTROL and MONITORING	
Rectifier Alarm and Signaling	High & low mains shutdown, high temperature shutdown, rectifier failure, overvoltage shutdown, fan failure, communication failure
Visual Indications	Alarms - RED, Warning - YELLOW, Normal operation - GREEN
OTHER SPECIFICATIONS	
Isolation	Input to Output: 3.0kVac, Input to Earth: 1.5kVac, Output to Earth: 0.5kVdc
Cooling	Fan-cooled, front to back airflow
Fan Speed	Regulated by temperature and output power
MTBF	> 250,000 hrs @ 25°C
ENVIRONMENTAL	
Operating Temperature Range	-40°C to +65°C (de-rates above 45°C)
Storage Temperature Range	-40°C to +70°C
Relative Humidity	Operating: 5% to 95% RH non-condensing Storage: 0% to 99% RH non-condensing
Acoustic Noise	≤55dB @ full load, 25°C
PHYSICAL	
Dimensions WxDxH (mm)	85 x 191 x 41 (1U)
Net Weight (kg)	≤0.95
DESIGN STANDARDS	
Electrical Safety	EN/IEC62368-1
EMC	ETSI EN 300 386 V1.6.1
Others	CE, RoHS compliant

Due to continuous product development, specifications are subject to change without prior notice

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