



ETR+ 2048

Efficient: Trusted: Reliable

PRODUCT DESCRIPTION

The fully Digital Controlled ETR⁺ 2048 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.

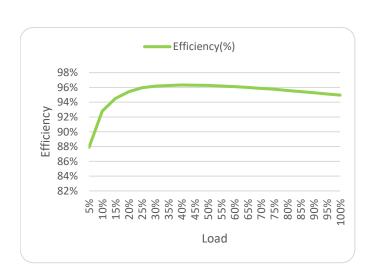
KEY FEATURES

- Fully Digital Controlled

 Reduces component count and improves reliability
- Modular, Scalable and Hot Swappable Flexible installations
- High Power Density Reduces footprint
- Highly Efficient @ >96%
 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

381030.100
2000W
85Vac to 305Vac (Nominal @ 185Vac to 275Vac)
45Hz to 66Hz
Max. 12Arms @ 185Vac (full load)
≥0.99 @ rated input and ≥50% load
Varistors for transient protection, Mains Fuse for both input lines Shutdown @ > 305Vac with hysteresis
Silutuowii @ > 505 vac witii ilysteresis
53.5Vdc (adjustable 43Vdc to 58Vdc)
2000W @ nominal input
41.7A @ 48Vdc with nominal input >96%
≤±5% of max current from 20% to 100% load
≤±5% of max current from 20% to 100% load ≤±0.6% from 10% to 100% load
≤±0.6% from 10% to 100% load ≤±5% for 10%-90% or 90%-10% load variation, regulation time <50ms
>20ms; output voltage >43.5Vdc @ 1000W
≤150mVp-p, 20MHz bandwidth
≤2mVrms psophometric
Overvoltage shutdown; hot plug-in, inrush current limiting;
high temperature protection; short circuit proof
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High & low mains shutdown, high temperature shutdown,
rectifier failure, overvoltage shutdown, fan failure, communication failure
Alarms - RED
Warning - YELLOW
Normal operation - GREEN
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Input to Output: 3.0kVac, Input to Earth: 1.5kVac, Output to Earth: 0.5kVdc
Fan-cooled, front to back airflow
Regulated by temperature and output power > 300,000 hrs @ 25°C
> 300,000 nrs @ 25 C
40° C to 470° C (do rotes above 50° C)
-40°C to +75°C (de-rates above 55°C)
-40°C to +85°C
Operating: 5% to 95% RH non-condensing Storage: 0% to 99% RH non-condensing
≤58dB @ full load, 25°C
108 x 325 x 41 (1U)
≤1.7
EN/IEC62368-1
ETSI EN 300 386 V2.1.1, EN61000-6-1/-2/-3/-4
EN61000-3-2 / EN61000-3-3
CE, RoHS compliant

 $\label{eq:decomposition} \mbox{Due to continuous product development, specifications are subject to change without prior notice}$

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