



EIPS30220

2900W 220Vdc Rectifier

PRODUCT DESCRIPTION

The EIPS30220 is a single-phase AC input switching rectifier module designed and optimized for 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 of the system solution.

KEY FEATURES

- **Modular, Scalable and Hot Swappable**
Flexible installations
- **High Power Density**
Reduces footprint
- **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

- Switchgear applications for power plants, power substation as well as railway industry
- Power supply for electrical equipment and emergency lighting for industrial applications



TECHNICAL SPECIFICATIONS

MODEL		EIPS30220
Capacity		2900W
INPUT		
Voltage Range (AC)		90Vac to 264Vac
Frequency		45Hz to 65Hz
Power Factor		>0.98 @ rated input and 234Vdc/10A output
Input Protection		Surge protection device
		AC over and under voltage protection
DC OUTPUT		
Output Voltage		234Vdc (adjustable 198Vdc to 286Vdc)
Output Power (Maximum)		2900W @ nominal input (176Vac to 264Vac)
		1200W @ derated input (90Vac to 175Vac)
Output Current (Maximum)		11A
Peak Efficiency		>93% @ rated input and 234Vdc/10A output
Current Sharing		$\leq \pm 5\%$
Dynamic Voltage Regulation		$\pm 5\%$ for 25%-50% or 50%-75% load variation
Load Regulation		$\pm 0.5\%$ from 0% to 100% load
Output Protection		Overvoltage protection; hot plug-in, internal failure isolated diode high temperature protection; short circuit proof
CONTROL and MONITORING		
Rectifier Alarm and Signaling		Input voltage out of range, Output undervoltage, Output overvoltage, fan failure, over temperature alarm
Visual Indications		Alarms - RED
		Warning - YELLOW
		Normal operation - GREEN
OTHER SPECIFICATIONS		
Isolation		Input to Output: 2.0kVac, Input to Earth: 2.0kVac, Output to Earth: 2.0kVdc
Cooling		Fan-cooled, front to back airflow
MTBF		> 100,000 hrs @ rated input and 234Vdc/10A output @ 25°C
ENVIRONMENTAL		
Operating Temperature Range		-10°C to +60°C (de-rates above 45°C)
Storage Temperature Range		-40°C to +70°C
Relative Humidity		Operating: 5% to 95% RH non-condensing
Acoustic Noise		<55dB @ full load, 25°C
PHYSICAL		
Dimensions WxDxH (mm)		111 x 270 x 88 (2U)
Net Weight (kg)		3.8
DESIGN STANDARDS		
Electrical Safety		EN/IEC62368-1
EMC		EN61000-6
Others		CE, RoHS compliant