

## KEY FEATURES

### Rectifier, 400 VDC, 15 kW

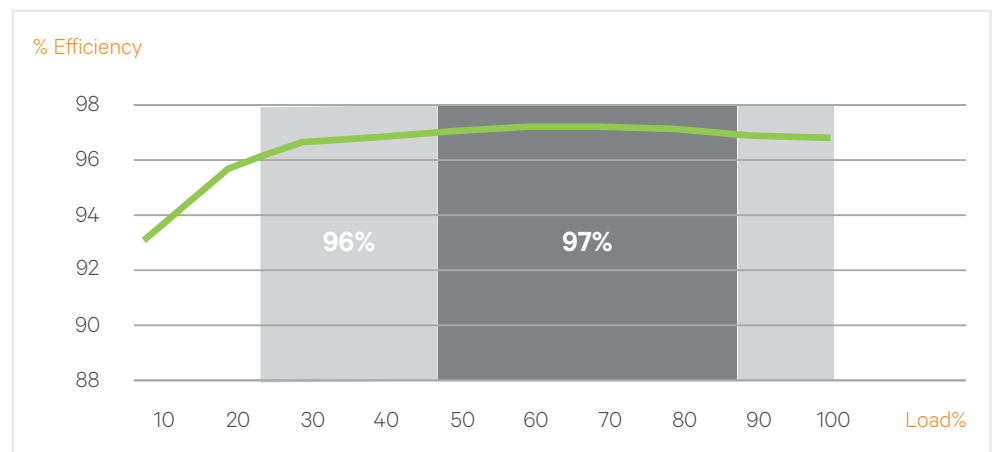
- 15 kW high-efficiency rectifier designed for 400V DC power applications
- Optimized depth – reduced footprint allows installation in short-depth racks and cabinets
- DSP (Digital Signal Processor) – means fewer components, optimized operation and active load sharing for increased reliability
- Compliant with global standards – delivers quality, performance and reliability no matter what the application or location demands
- High efficiency, peak 97% – reduces power consumption for lower operating costs
- Hot pluggable – facilitates future expansions and easy maintenance
- Wide input voltage range to operate in the most demanding environments
- Wide temperature operating range to meet the harshest climatic environments

In addition to reducing power consumption and lowering operating cost, eSure™ high-efficiency rectifiers offer superior performance and uncompromised reliability.

### Description

The 15 kW high-efficiency eSure rectifier (model R400-15000e) is designed to convert standard AC supply voltages into stable 400V DC voltage that is adjustable to application needs. The R400-15000e is a constant power rectifier designed with the latest patented switchmode technology, using DSP (Digital Signal Processor) functionality for efficient operation.

For a higher load capacity, rectifiers can be connected in parallel, and intelligent control can be added with the help of a separate controller.



R400-15000e Efficiency Curve at 380 VAC Nominal

## Technical Specifications

AC INPUT	
Voltage	260 VAC to 530 VAC (see figure 1) 380 VAC to 480 VAC (nominal)
Frequency	45 Hz to 65 Hz
Maximum Current	30 A
Power Factor	0.99

DC OUTPUT	
Voltage	290 VDC to 400 VDC
Maximum Power	15000 W @ Vout >336 VDC
Maximum Current	44.6 A @ 400 VDC, and nominal input, limit set point 0 to 44.6 A (see figure 2 for derating)
Peak Efficiency	Peak 97%

CONTROL AND MONITORING	
Rectifier Alarm and Signaling	Alarm and status reported via CAN bus to system controller
Visual Indications	Green LED: Normal Operation Yellow LED: Alarm Red LED: Failure

ENVIRONMENTAL	
Operating	-40°C to +65°C / -40°F to +149°F (see diagram for de-rating)
Storage	-40°C to +75°C / -40°F to +167°F
Relative Humidity	0 to 95%
Altitude	2000 m / 6560 ft at full power

STANDARDS COMPLIANCE	
Safety	60950-1 (EN, IEC and UL)
EMC	EN55022, CISPR22, ETSI EN300 386: 2005, FCC CFR 47 Part 15, Telcordia GR-1089-CORE issue 6 (Class B conducted and radiated)
Environment	REACH, RoHS, WEEE

MECHANICS	
Dimensions (H x W x D)	88 x 218 x 565 (mm) / 3.5 x 8.5 x 22 (inches)
Weight	10 kg / 22 lbs

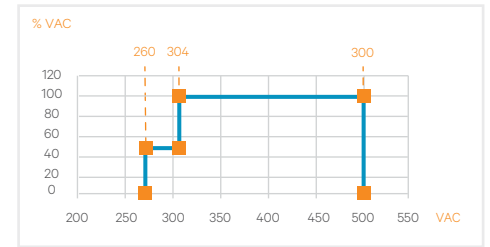
## Ordering Information

PRODUCT CODE	DESCRIPTION
1R40015000E	Rectifier, 400 VDC, 15 kW

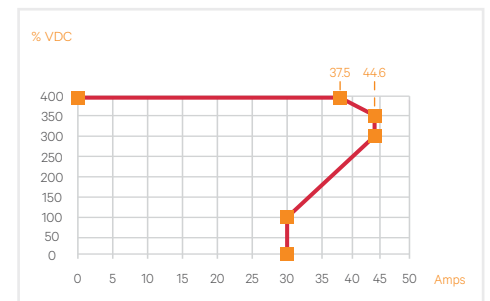
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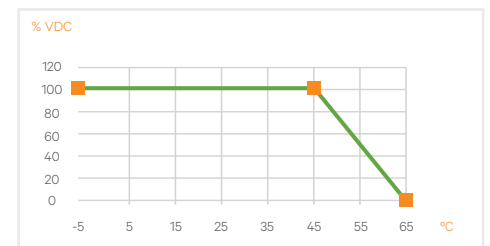
## Figures



**Figure 1**  
Output Power vs. Input Voltage  
at Tamb <45°C



**Figure 2**  
Output voltage vs. Output current,  
max. output power 15000 W



**Figure 3**  
Output Power vs. Temperature  
at Uin>340VAC, Vo >336 VDC