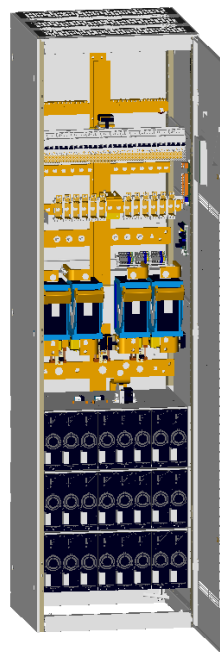


The AMS 2000 Power System

Description:

The AMS 48/2000-24 ETS is a modular large power system for power up to 48 kW. The stable construction is based on a frame cabinet design. The system contains three rectifier shelves for up to 16 rectifiers FR 48 V – 2000 W – E and different distribution units with configurable elements for AC-, DC distribution, LVD, LVLD and a power system controller.

The modular design allows flexible power system solutions in the ETS cabinet line and is the key factor of the success of this power system and it offers a cost effective and reliable solution. This power system is expandable with a 2nd cabinet.



Features

- Up to 48 kW installed power
- Expandable with a 2nd cabinet up to 96 kW
- Fan cooled rectifiers FR 48 V – 2000 W – E
- Hot pluggable, all connectors at the rear
- Efficiency $\geq 91\%$
- LVD option
- Up to 3 LVLD option
- Power system controller PSC 1000 or PSC 3

Specification

General

Product name	AMS 48/2000-24 ETS
Efficiency	$\geq 91\%$
Losses, max.	4800 W (24 rectifiers)
Safety	EN 60 950, class I
EMI, radiated compliant with	EN 55 022, class B EN 300 386-2
Cooling	Fan cooled
Environment	ETS 300 019-1-3 Class 3.2

Input

AC connection	3L + N + PE
Nominal voltage	3 x 230 V _{rms} (L-N)
Voltage range	184 ... 276 V _{rms}
Frequency range	45 ... 66 Hz
Current nominal	3 x 28,6 A @ 230 V
Current maximum	3 x 35,6 A @ 184 V
THD	< 5 %
EMI, conducted	EN 55 022, class B

Output

Voltage, nominal	53.5 V _{dc}
Voltage adjust range	42 ... 58 V _{dc}
Voltage error, static	± 250 mV _{dc}
EMI, conducted	EN 55 022, class A
Nominal current	897 A _{dc} @ 48kW, 53.5V
Current limit, maximum	1116 A _{dc} @ 48kW, 43V
Maximum power	48 kW

Mechanics

Width, body	600 mm
Depth, overall	600 mm
Height, overall	2200 mm
Weight, system	220 kg
Weight, rectifiers	24 x 4.4 kg

Environment

Ambient temperature	-25 ... + 70 °C
Reduced power	60 ... + 70 °C
Relative humidity	95 % max, non cond.

