framatome

# Software-Free AC / DC Converter Module 19 Inch Design

## Applicable for 24 VDC Power Supply

**Framatome provides software-Free AC/DC converter modules enabling 1-to-1 replacements in existing power supply cabinets installed in nuclear power plants. Our comprehensive services for power supply include consulting and feasibility analysis, engineering and design concepts, qualification as well as erection and commissioning.**



19-Inch Converter
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## Challenge

Operational and Safety I&C requires a secured 24 VDC supply. Due to obsolescence replacement parts are required. Standard industrial products are often equipped with software that needs additional sophisticated qualification to nuclear standards.

Operational requirements for environmental temperatures up to 45°C or more, demand design margins that are not always implemented in standard industry products. In addition, selectivity must be fulfilled.

## Solution

Framatome provides a qualified power supply as a modular, software-free solution for converting 230 VAC to 24 VDC. The AC/DC power supply module provides approximately 65 A output current and is a high efficiency supply for DC consumers.

Integrated software-free control and regulation ensure low ripple and minimal harmonic distortion, along with fast response times. Additionally, it includes switch mode control and active power function correction.

## Customer benefits

Better electrical characteristic´s regarding

- overload capability
- modular and software-free design
- possibility of 1-to-1 replacement at module level
- ambient temperature capability of 45°C and more

## Technical Information

- type: E230G24 / 65 BWLrug-19Z
- UN: 230 VAC +/- 20 %
- IN: 9,4 A • UA : 26,8 VDC +/- 1 % (22-30 V)
- IA: 65 A +/- 2 % (0-65 A)
- PV: approx. 235 W
- characteristic IU (DIN 41772 / DIN 41773)
- weight: approx. 12 kg
- dimension: 483 x 177 x 206 mm (3U/4HE)
- cooling: AN
- Main fuse: C16

## Key figures

**24 VDC / 65 A** output

**45°C +** ambient working temperature

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