

## A3486

**3-phase 220/400  
Vac. 48 Vdc (2 ch x  
2 kW/1 ch x 4 kW)  
Converter**



## Features



- 3U 19" Euro Rack, 50 cm deep
- Dual 2 kW or Single 4 kW 48V output
- 48V  $\pm$  10% output dynamics (remotely programmable)
- 40 A maximum programmable output current (per channel)
- Overcurrent protection (programmable trip time)
- Overcurrent, Undervoltage and Overvoltage status remotely available
- Voltage ripple smaller than 100 mV rms
- Local or remote inhibit function
- Vertical "bottom-to-top" forced air cooling
- EASY class magnetic field and radiation tolerance

## Description

The CAEN **Mod. A3486** is a two channel 400 Vac - 48 Vdc converter, which allows to integrate into the EASY channels control also the management of the 48 V Power Supplies. Each channel provides a 2 kW output (referred to earth) and can be tracked in order to obtain one 4 kW output. This module is designed to work as main converter in LHC hostile areas, thus completing the EASY system. Features include local or remote control, overload protection and local or remote inhibit function.

The module front panel houses LEDs and channels monitor signals. The channel outputs are provided through Anderson Power single pin connectors.

Mod. A3486S, with power supply and link connection on the front panel, is also available.

## Technical Specifications

### Packaging

- 19"-wide, 3U-high Euro-mechanics rack
- Depth: 50 cm

### Output Polarity

Positive; common floating ground DC insulation vs. Earth  $>4K \Omega$ ; max  $V_{cm}$  (common mode) :  $\pm 10 V$

### AC input

3-phase 220/400 V 50/400 Hz

### DC input

2A @ 48V

### Output Voltage

44 ÷ 52 V adjustable via software

### Max. Output Power

4 kW

### Voltage Ripple

$<100$  mVpp measured on 10Hz to 20MHz bandwidth

### Voltage Monitor vs. Output Voltage Accuracy

max.  $\pm 0.5\%$

### Voltage Set vs. Output Voltage Accuracy

max.  $\pm 0.5\%$

### Current Monitor vs. Output Current Accuracy:

$\pm 1A \pm 2\%$  of reading

### Current Set vs. Output Current Accuracy

$\pm 1A \pm 2\%$  of setting

### Test Set Up

- Cable: length = 2m;  $\varnothing = 10$ mm (for both output and return)
- Test Load: 250 ÷ 2000 W (nominal)
- Load capacitance: 100 $\mu$ F electrolytic // 100nF ceramic (// to the load)

## Ordering Options

Code	Description
WA3486LSXAAA	A3486LS - 3-phase 220Vac - 48 Vdc(2 ch x 2 kW/1 ch x 4 kW) Converter - Frontal Acc
WA3486LXAAAA	A3486L - 3-phase 220Vac - 48 Vdc(2 ch x 2 kW/1 ch x 4 kW) Converter - APP Conn.
WA3486SXAAAA	A3486S - 3-phase 400 Vac - 48 Vdc(2 ch x 2 kW/1 ch x 4 kW) Converter - Frontal Acc
WA3486USXAAA	A3486US - 3-phase 220 Vac USA standard - 48 Vdc(2 ch x 2 kW/1 ch x 4 kW) Converter - Frontal Acc
WA3486UXAAAA	A3486U - 3-phase 220 Vac USA standard - 48 Vdc(2 ch x 2 kW/1 ch x 4 kW) Converter - APP Conn.
WA3486XAAAAA	A3486 - 3-phase 400 Vac - 48 Vdc(2 ch x 2 kW/1 ch x 4 kW) Converter - APP Conn.

## Related Products

### A3484



3-phase 220/400 Vac. 48 Vdc (1 ch x 2.5 kW) Converter

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### A3485



3-phase 400 Vac . 48 Vdc (2 ch x 2.5 kW) Converter

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## Gallery



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