

# Matrix™ 2000 Standalone Inverter



## Features

- Designed for telecom applications
- Pure sine wave output
- Unity power factor (full 2000 watt output power)
- Significant overload capability, 120% continuously, 200% for 5 seconds
- High efficiency, >91 %
- High power density
- Built in Static Transfer Switch (STS)
- DSP design for improved reliability and performance
- Single phase 120Vac or 230Vac output options
- Comprehensive LCD/LED with keypad
- USB interface for connecting to PC
- Wide selection of configurable parameters.
- International certifications

The **Eaton® Matrix™ 2000 Standalone Inverter** is designed for use in telecommunications applications where a very reliable AC supply is required. The high efficiency and compact size makes the Matrix 2000 Inverter an outstanding solution for powering all types of critical AC equipment.

The Matrix 2000 Standalone Inverter provides 2000W of reliable AC power in a 1U x 19" rack mount package that includes a built-in Static Transfer Switch (STS). The STS automatically and instantaneously switches the AC output, from the DC inverter to an alternative source such as AC mains (and back again), providing extra security of the AC supply to the load equipment.

The Matrix 2000 solution uses digital microprocessor control to provide maximum performance under all operating conditions. The built-in controller gives real-time system status through comprehensive LCD/LED displays, and allows program setting through a keypad panel.

The Matrix 2000 Standalone Inverter includes a built in USB interface for monitoring and control.



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# Technical Specification

## DC Input

Operating Range 48V: 40Vdc ~ 60Vdc

## AC Input (to Transfer Switch)

Voltage Range: INV-4820SA: 89Vac to 138Vac  
(50/60Hz) INV-4820ESA: 176Vac to 276Vac  
Transfer Time <10ms

## AC Output

Power Output 2000VA / 2000W  
Wave Form Pure sine wave  
Power Factor 1.0  
Nominal Output INV-4820SA: 110/115/120Vac  
Voltage INV-4820ESA: 208/220/230/240Vac  
(selectable)  
Output 50,60Hz  
Frequency  
Efficiency >91% at rated load  
Over Load 2\*Inom, 5sec max  
Protection 1.5\*Inom, 10sec max  
1.25\*Inom, temperature controlled

## Environmental Requirements

Operating Temperature -20°C to 60°C (-4°F to 140°F)  
Range -20°C to 50 °C (-4°F to 122°F), full performance  
Cooling Fan Cooled

## Certifications

All products comply with international standards.

Safety EN60950-1 / UL60950-1

Europe CE

In the interests of continual product improvement all specifications are subject to change without notice.

