



# The HDS 3000-48V Power System

## Description:

The HDS 3000 series power system combines a compact modular design with intelligent power features and state-of-the-art technology. The HDS 3000 is capable of providing power up to 72 kW. It contains up to six rectifier shelves for up to 24 rectifiers. The system can be configured with various breaker panel configurations, equipped with or without LVD and several remote access options.



## Features

- Up to 72kW installed power in a 7 ft frame
- Constant power design
- Power system controller Intelligent CSU
- NEB Level III certified

## Specification

### General

Product Name	ESR 48 V - 3000W - D
Efficiency, at 220Vrms	91 %
Safety	UL/cUL
EMI, radiated compliant with	FCC Part 15, class B EN 55022, class B

### Input

AC connection	220 V <sub>rms</sub> 1 $\Phi$ or 3 $\Phi$
Voltage range	176 ... 275 V <sub>rms</sub>
Frequency range	45 ... 65 Hz
Current nominal	64 A @ 72kW per shelf, 1 $\Phi$ 37 A @ 72kW per shelf, 3 $\Phi$
Inrush current	< 84 A <sub>peak</sub> per shelf, 1 $\Phi$ < 48.5 A <sub>peak</sub> per shelf, 3 $\Phi$
EMI, conducted compliant with	FCC Part 15 class B EN 55022 class B

### Output

Voltage, nominal	54 V <sub>dc</sub>
Voltage adjust range	40 ... 59.5 V <sub>dc</sub>
Load sharing	< $\pm$ 5%
LVDS	1200 A x 2 on load side
Battery Disconnect	Optional

### Power System Controller

Intelligent CSU	
Relay outputs	Up to 24 relay outputs (Optional)

### Environment

Operating temperature	- 20 ... + 60 °C
Relative humidity	95 % max, non condensing
Altitude	- 500 ~ 10000 feet

\*Specifications are subject to change

