

**OPUS DC/DC Converters**

**EDC750 750W**



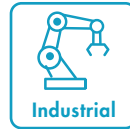
**Features**

- » DC Input range 65 VDC - 300 VDC
- » AC input range 55 VDC - 250 VAC
- » All output voltages 0 VDC - 144 VDC
- » Adjustable output voltage 0 - Vmax
- » Adjustable current limit 0 - Imax
- » Converter module for OPUS Power Systems or stand-Alone applications

**Certifications**



**Use cases**



**Rack mounting adapter  
Plug-in unit for OPUS racks**



**OPUS 19" 5U DC/DC Rack  
Converter systems  
450W - 3750W**



**DC/DC converter modu-  
les and systems to OPUS  
cabinets**

## PRODUCT DESCRIPTION

OPUS EDC750 Converters are parallel connectable, fault tolerant and n+1 redundant modules. Modular Converter system is ideal solution to provide several secured DC voltages from one main battery system. EDC converters are compatible to OPUS DC power systems or they can be used in converter racks or in stand-alone applications. Relay alarm of converter can be reported via VIDI controller alarm management and monitored remotely

## TYPICAL APPLICATIONS

- » Utility Communication systems (e.g. 110V/48V)
- » Tele site Auxiliary systems (e.g. 48V/12-24V)
- » Voltage regulation for sensitive loads (e.g. 1.8 vpc-2.4 vpc / 2 vpc)
- » Galvanic Isolation between different grounding systems (e.g. -48V / floating 48V)

## 750W DC/DC Converters for 110-220VDC Battery Systems

| Type                | Description         | Input voltage range   | Nominal output Voltage / current | Voltage / Current limit setting range |
|---------------------|---------------------|-----------------------|----------------------------------|---------------------------------------|
| <b>7080X0014618</b> | EDC 110-220/12-750  | 65-300VDC / 55-250VAC | 12VDC / 30A                      | 0-36VDC / 0-30A, max 750W             |
| <b>7080X0014619</b> | EDC 110-220/24-750  | 65-300VDC / 55-250VAC | 24VDC / 30A                      | 0-36VDC / 0-30A, max 750W             |
| <b>7080X0014620</b> | EDC 110-220/36-750  | 65-300VDC / 55-250VAC | 36VDC / 20A                      | 0-54VDC / 0-20A, max 750W             |
| <b>7080X0014621</b> | EDC 110-220/48-750  | 65-300VDC / 55-250VAC | 48VDC / 15A                      | 0-72VDC / 0-15A, max 750W             |
| <b>7080X0014622</b> | EDC 110-220/60-750  | 65-300VDC / 55-250VAC | 60-72VDC / 10A                   | 0-108VDC / 0-10A, max 750W            |
| <b>7080X0014623</b> | EDC 110-220/110-750 | 65-300VDC / 55-250VAC | 110-125VDC / 6A- 6.8A            | 0-144VDC / 0-7.5A, max 750W           |

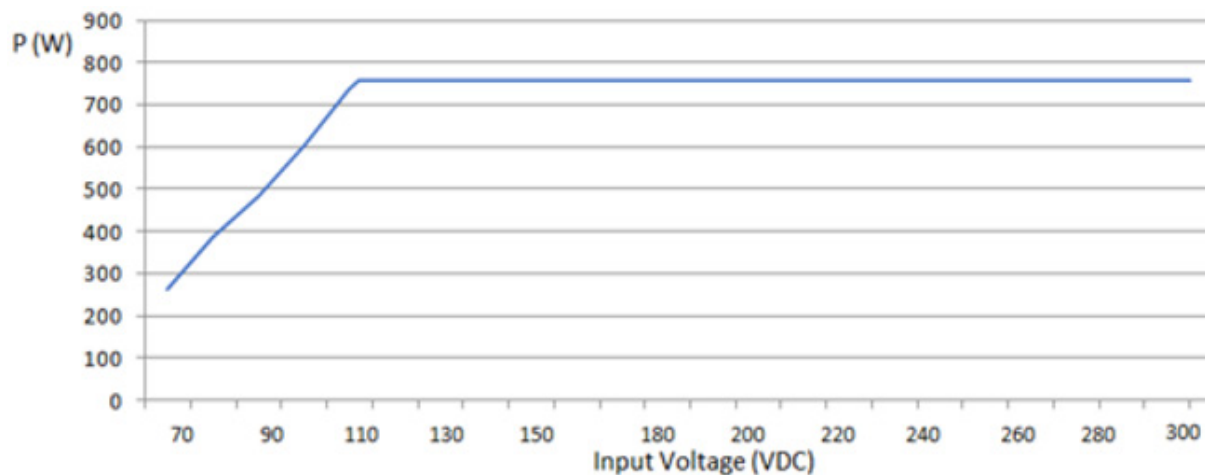
## Rack mounting adapter, Plug-in unit for OPUS racks & cabinets

|                     |   |
|---------------------|---|
| <b>8320X0015306</b> | Rack plug-in adapter EDC750 converter, incl. plug-in cables, input MCB 1-p and output MCB 1-p |
|---------------------|---|

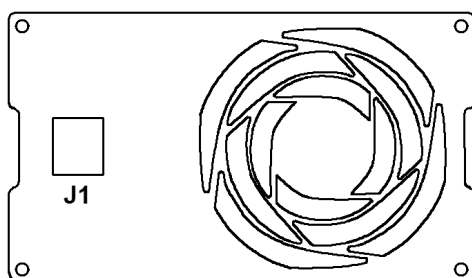
# TECHNICAL SPECIFICATIONS

| EDC 750W series                  |   |
|----------------------------------|---|
| <b>Nominal input</b>             | 110-220 VDC / 100-230VAC 50/60Hz  |
| <b>Input range</b>               | 65-300VDC / 55-250VAC, see de-rating curve  |
| <b>Max Input Current</b>         | 9 A   |
| <b>Input fuse, internal</b>      | 10 A  |
| <b>Polarity protection</b>       | Input and output protected against wrong polarity connection  |
| <b>Line / Load regulation</b>    | ±0.1% / ±0.5%   |
| <b>Output setting accuracy</b>   | ±0.1%   |
| <b>Output ripple (f&gt;50Hz)</b> | <50 mVrms   |
| <b>Efficiency</b>                | Typical 84% @ Nominal input, 10%-100% load  |
| <b>Status LED indicator</b>      | Power OK: Orange LED  |
| <b>Remote Alarms</b>             | Module Failure, Potential free relay alarm  |
| <b>Isolations</b>                | input-chassis 1500 VAC, input-output 3750 VAC, output-chassis 500 VAC   |
| <b>Standards</b>                 | Safety: IEC 60950-1:2005 (2nd Edition) + A1:2009 + A2:2013<br>EMC:EN 61000-6-2:2005, EN 61000-6-3:2007 + A1(2011), EN 61000-3-2:2014, EN 61000-3-3:2013   |
| <b>Protection class</b>          | IP20 metal enclosure  |
| <b>Connections</b>               | Input: 1m cable, mains plug<br>L / DC+ brown wire<br>N / DC- blue wire<br>PE green-yellow wire<br>Output: Terminal blocks (+ -), 6mm <sup>2</sup> 2m wires<br>Alarm Relay: RJ11 terminal, NO-NC-COM, 1m wires |
| <b>Dimensions &amp; Weight</b>   | 220 x 112 x 73 mm / 1,55kg  |
| <b>Mounting</b>                  | OPUS DC Systems, DIN-rail, wall, bench  |
| <b>Cooling</b>                   | Temperature controlled fan  |
| <b>Operating temp range</b>      | -25°C...+40°C   |

# OUTPUT POWER - INPUT VOLTAGE DE-RATING CURVES



## CONNECTORS



**J1 Option Analog Input**

