

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 -  $V_{max}$   
 Adjustable current limit 0 -  $I_{max}$   
 Converter module for OPUS Power Systems or stand-Alone applications



Converter module



Rack mounting adapter  
Plug-in unit for OPUS racks



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



DC/DC converter modules 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
7080X0014618	EDC 110-220/12-750	65-300VDC / 55-250VAC	12VDC / 30A	0-36VDC / 0-30A, max 750W
7080X0014619	EDC 110-220/24-750	65-300VDC / 55-250VAC	24VDC / 30A	0-36VDC / 0-30A, max 750W
7080X0014620	EDC 110-220/36-750	65-300VDC / 55-250VAC	36VDC / 20A	0-54VDC / 0-20A, max 750W
7080X0014621	EDC 110-220/48-750	65-300VDC / 55-250VAC	48VDC / 15A	0-72VDC / 0-15A, max 750W
7080X0014622	EDC 110-220/60-750	65-300VDC / 55-250VAC	60-72VDC / 10A	0-108VDC / 0-10A, max 750W
7080X0014623	EDC 110-220/110-750	65-300VDC / 55-250VAC	110-125VDC / 6A- 6.8A	0-144VDC / 0-7.5A, max 750W

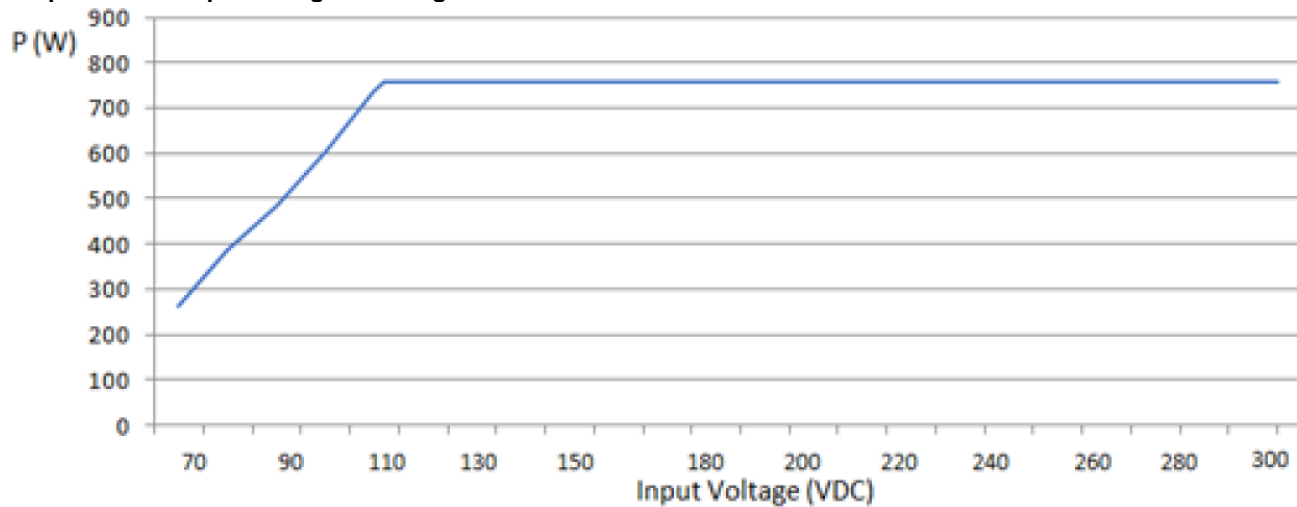
## Rack mounting adapter, Plug-in unit for OPUS racks & cabinets

8320X0015306	Rack plug-in adapter EDC750 converter, incl. plug-in cables, input MCB 1-p and output MCB 1-p
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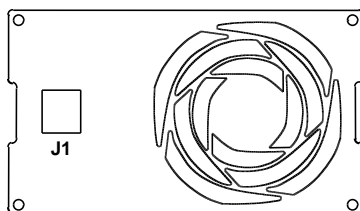
# Technical Specifications

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

## Output Power - Input Voltage de-rating curves



## Connectors



J1 Option Analog Input

