

OPUS DC/DC Converters EDC750 and EDC500

750W Series 110-220V Input
500W Series 48-72VDC Input
All output voltages 0-125VDC
Adjustable current limit 0 - I_{max}
OPUS DC/DC Power Systems
Stand-Alone applications



DC/DC Converters to OPUS Power Systems



Modular Converter Systems



Product Description

The OPUS EDC 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 separately in any 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 (See AC range next page)	Nominal output voltage	Voltage / Current limit setting range	Max Output Current @ Nominal Output, See Power Curve	
					110VDC Input	220VDC Input
7080X0014618	EDC 110-220/12-750	65-300VDC	12VDC	0-36VDC / 0-30A	12VDC / 30A	12VDC / 30A
7080X0014619	EDC 110-220/24-750	65-300VDC	24VDC	0-36VDC / 0-30A	24VDC / 30A	24VDC / 30A
7080X0014620	EDC 110-220/36-750	65-300VDC	36VDC	0-54VDC / 0-20A	36VDC / 20A	36VDC / 20A
7080X0014621	EDC 110-220/48-750	65-300VDC	48VDC	0-72VDC / 0-15A	48VDC / 15A	48VDC / 15A
7080X0014622	EDC 110-220/60-750	65-300VDC	60VDC	0-108VDC / 0-10A	60VDC / 10 A	60VDC / 10 A
7080X0014623	EDC 110-220/110-750	65-300VDC	110VDC	0-144VDC / 0-7.5A	110VDC / 6.5A	110VDC / 6.5A

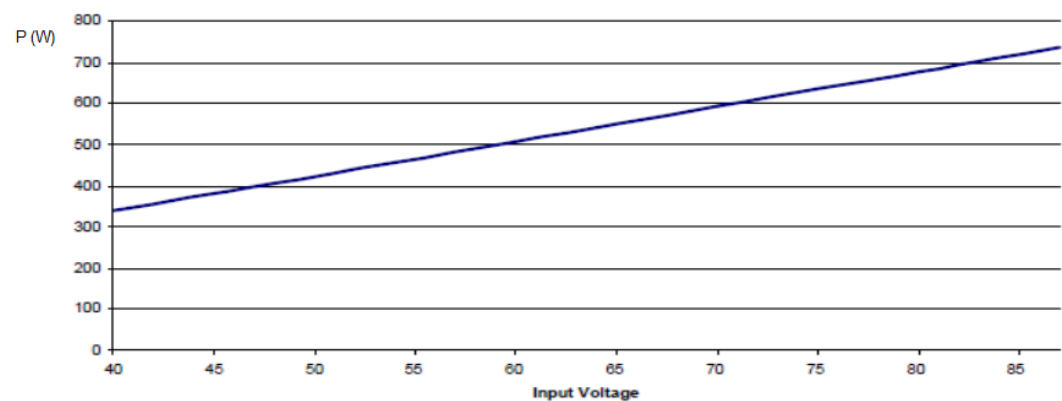
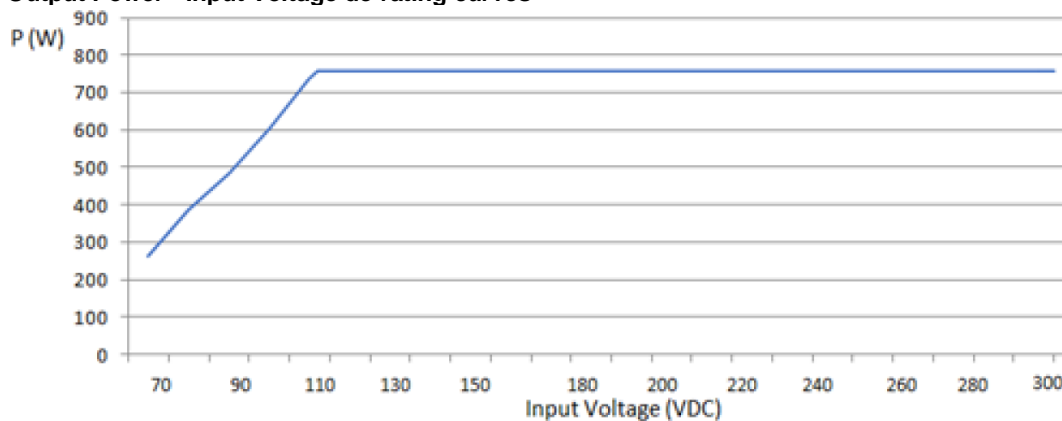
400W-500W DC/DC Converters for 48-72VDC Battery Systems

Type	Description	Input voltage range	Nominal output voltage	Voltage Setting range	Max Output Current @ Nominal Output, See Power Curve	
					48VDC Input (400W)	60VDC Input (500W)
7080X0014624	EDC 48-72/12-500	40-87VDC	12VDC	0-32VDC / 0-30A	12VDC / 30A	12VDC / 30A
7080X0014625	EDC 48-72/24-500	40-87VDC	24VDC	0-32VDC / 0-30A	24VDC / 16A	24VDC / 20A
7080X0014626	EDC 48-72/36-500	40-87VDC	36VDC	0-45VDC / 0-20A	36VDC / 11A	36VDC / 13A
7080X0014627	EDC 48-72/48-500	40-87VDC	48VDC	0-64VDC / 0-15A	48VDC / 8A	48VDC / 10A
7080X0014628	EDC 48-72/60-500	40-87VDC	60VDC	0-92VDC / 0-10A	60VDC / 6.5 A	60VDC / 8 A
7080X0014629	EDC 48-72/110-500	40-87VDC	110VDC	0-129VDC / 0-7.5A	110VDC / 3.5A	110VDC / 4.5A

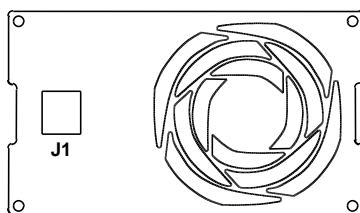
Technical Specifications

	EDC 500W series	EDC 750W series
Nominal input	48-72 VDC	110-220 VDC
Input range	40-87 VDC, see de-rating curve	65-300VDC / 55-250VAC, see de-rating curve
Max Input Current	11 A	9 A
Input fuse, internal	12 A	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 with open ends - negative DC supply input (black wire) + positive DC supply input (white wire) PE protective earth (green wire) Output: Terminal blocks (+ -), 6mm ² 2m wires Alarm Relay: RJ11 terminal, NO-NC-COM, 1m wires	Input: 1m cable, mains plug L positive DC supply input (brown wire) N negative DC supply input (blue wire) PE protective earth (green-yellow wire) Output: Terminal blocks (+ -), 6mm ² 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

