

DC/DC Wandler Module

DC/DC Module und Point of Load Wandler 0,25 Watt bis 500 Watt



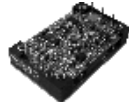




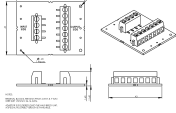

Sehr hoher Wirkungsgrad über 90% bis 95%
Leistungsdichte bis zu 5,53W/cm³
Quater-, Half-, Full-Brick Size

Die nachfolgende Übersicht an Standard DC/DC - Modulen zeigt Ihnen optimale Lösungen für on-board DC - Leistung. Der hohe Wirkungsgrad und die hohe Leistungsdichte der Module ermöglichen außergewöhnliche Performance und Zuverlässigkeit, in einer Vielzahl von Modulgrößen und Konfigurationen. In den Modulen von Powerstax, einem führenden Unternehmen im Markt der DC/DC-Module und DC/DC-Wandler, wird Spitzentechnologie mit einer einmaligen patentierten Topologie vereint. Das Ergebnis sind Produkte, die hohe Zuverlässigkeit, gesteigerte Flexibilität und ausgezeichnete Performance bieten. Sie bieten dem Anwender kosteneffiziente Lösungen für jeden Bedarf von DC- Spannungsanforderungen.

Ausführliche Daten der einzelnen Module finden Sie auf unserer Website www.zentro-elektrik.de.

Bitte sprechen Sie Zentro-Elektrik auch an, wenn Sie für Ihre spezifische Anforderung eine Modifikation, eine spezielle Konfiguration oder eine kundenspezifische Lösung benötigen.

Übersicht

Beschreibung	Ausgangsleistung	
200- 500 DC-DC Converter Modules	500 - 200W	
75 - 200W DC-DC Converter Modules	75 - 200W	
25 - 50W DC-DC Converter Modules	25 - 50W	
15 - 25W DC-DC Converter Modules	15 - 25W	
Up to 15W & PCB Mount Mini DC-DC Converters	>15W	
Miniature and Point of Load (PoL) DC-DC Converters	>0.25W - 15W	
High Efficiency Point of Load (PoL) DC-DC Converters	>20A	
Accessories Terminal Adaptors Heat		
1000W & 600W PFC Module	1000W & 600W	
Point of Load Wandler auf Anfrage	0,25W - 500W	

If you have any query, or require further information on Powerstax products, services or specifications, please contact Zentro-Elektrik Sales Department at info@zentro-elektrik.de or Tel. +49 (0) 72 31 - 45 23 69

Übersicht der Module im Einzelnen

500W DC-DC Converters				
Part Ref:	Amps / Outputs	Input Range (VDC)	Output 1 (VDC)	Dims. (mm)
F501	40	18 - 36	48, 28*, 24*, 15*	116 x 61.0 x 12.7
F501	40	36 - 75	48, 28, 24, 15	116 x 61.0 x 12.7

*450



F501 "Full Brick"
500W DC-DC-Converter

300W - 450W DC-DC Converters				
Part Ref:	Amps / Outputs	Input Range (VDC)	Output 1 (VDC)	Dims. (mm)
F501	40	18 - 36 36 - 75	12	116 x 61.0 x 12.7
F351	30	11 - 18	48, 28, 24, 15, 12	116 x 61.0 x 12.7

200W - 300W DC-DC Converters						
Part Ref:	Amps / Outputs	Input Range (VDC)	Output 1 (VDC)	Output 2 (VDC)	Output 3 (VDC)	Dims. (mm)
F211	20	18 - 36	12, 5	-	-	116 x 61.0 x 12.7
F211	20	36 - 72	12, 5	-	-	116 x 61.0 x 12.7
HB Series	DUAL	36 - 75	7.5(15A) 5(20A)	3.3(30A)	-	61.0 x 57.9 x 12.7
HB Series	30	36 - 75	7.5	-	-	61.0 x 57.9 x 12.7

100W - 200W DC-DC Converters							
Part Ref:	Amps / Outputs	Input Range (VDC)	Output 1 (VDC)	Output 2 (VDC)	Output 3 (VDC)	Output 4 (VDC)	Dims. (mm)
HB series	DUAL	18 - 36, 36 - 75	5, 3.3, 2.5 (35A max)	2.5, 1.8 (40A max)	-	-	60.96 x 57.91 x 12.7
HB series	TRIPLE	18 - 36, 36 - 75	2.5 (35A)	13(4A)	13(4A)	-	60.96 x 57.91 x 12.7



Examples of Powerstax DC-DC converters from 75W - 200W

DC/DC Wandler Module

75W - 100W DC-DC Converters							
Part Ref:	Amps / Outputs	Input Range (VDC)	Output 1 (VDC)		Output 2 (VDC)		Dims. (mm)
SRS	35	36 - 75	15(6A) 12(7.5A), 5(17A), 3.3(25A), 2.5(30A), 2(30A), 1.8(30A), 1.5(30A), 1.2(35A), 1.0(35A)		-		33.0 x 22.9 x 9.4
Part Ref:	Amps / Outputs	Input Range (VDC)	Output 1 (VDC)	Output 2 (VDC)	Output 3 (VDC)	Output 4 (VDC)	Dims. (mm)
QB series	40A max	18 - 36	15(6.7A), 12(8.4A), 7.5(14A), 5.0(20A), 3.3(30A), 2.5(35A), 2.0, 1.8, 1.5	-	-	-	36.8 x 57.9 x 12.7
QB series	40A max	36 - 75	15(6.7A), 12(8.4A), 7.5(14A), 5.0(20A), 3.3(30A), 2.5(35A), 2.0, 1.8, 1.5	-	-	-	36.8 x 57.9 x 12.7
HB series	TRIPLE	18 - 36, 36 - 75	5(20A max), 3.3(25A max), 2.5(25A max)	13(2.5A max)	13(2.5A max)	-	60.96 x 57.91 x 12.7
MK series	SINGLE (max 225W)	240 - 420VDC	1.8(12A), 1.5(12A), 1.2(12A)	5(8A max), 3.3(8A max)	±15(0.8A), ±12(1A)	±15(0.8A), ±12(1A)	76.2 x 50.8 x 45.72
MK series	DUAL (max 150W)	240 - 420VDC	3.3, 5.0	1.8, 2.5, 3.3	-	-	76.2 x 76.2 x 14
MK series	TRIPLE (max 150W)	240 - 420VDC	3.3, 5.0	1.8, 2.5, 3.3	13, 15	-	76.2 x 76.2 x 14
MH series	20	18 - 36, 36 - 75, 18 - 75	48(1A), 15(8A max), 12(8.4A max), 5, 3.3, 2.5	-	-	-	76.2 x 76.2 x 13.5
MH series	DUAL	18 - 36, 36 - 75, 18 - 75	12 (2.1 max), 5(5A)	12(4.2 max) 5(5A)	-	-	76.2 x 76.2 x 13.5
MH series	TRIPLE	18 - 36, 36 - 75, 18 - 75	5(5A)	±15(0.84A), ±12(0.1A)	±15(0.84A), ±12(0.1A)	-	76.2 x 76.2 x 13.5
R series	20	9 - 18, 18 - 36, 36 - 75	24(4A), 15(7A), 12(8A), 5	-	-	-	140 x 98.9 x 34.8
R series	DUAL	9 - 18, 18 - 36, 36 - 75	5(10A)	12(4A)	-	-	140 x 98.9 x 34.8
R series	TRIPLE	9 - 18, 18 - 36, 36 - 75	5(10A), 12(5A)	±12(2A), ±15(1.6A), ±5(4A)	±12(2A), ±15(1.6A), ±5(4A)	-	140 x 98.9 x 34.8



Examples of Powerstax DC-DC converters from 75W - 200W

50W - 75W DC-DC Converters							
Part Ref:	Amps / Outputs	Input Range (VDC)	Output 1 (VDC)	Output 2 (VDC)	Output 3 (VDC)	Output 4 (VDC)	Dims. (mm)
DH series	25A (max)	18 - 36, 36 - 75, 18 - 75	80(0.63A), 60(0.84A), 48(1.04A), 15(3.4A), 2(4.2A), 10(5A), 5(10A), 3.3(16A), .5(20A), 1.8, 1.5, 1.2	-	-	-	55.9 x 40.7 x 11.43(max)
DH series	DUAL (bipolar)	18 - 36, 36 - 75, 18 - 75	±15(1.67A), ±12(2.10A), ±10(2.5A), ±5(5A)	±15(1.67A), ±12(2.10A), ±10(2.5A), ±5(5A)	-	-	55.9 x 40.7 x 11.43(max)
DH series	DUAL	18 - 36, 36 - 75, 18 - 75	5(5A), 3.3(8A), 2.5(10A), 1.8(12.5A), 1.5(12.5A), 1.2(12.5A)	5(10A), 3.3(10A), 2.5(10A), 1.8(10A), 1.5(10A), 1.2(10A)	-	-	55.9 x 40.7 x 11.43(max)
DH series	DUAL	18 - 36, 36 - 75, 18 - 75	5(5A), 3.3(8A), 2.5(10A), 1.8(12.5A), 1.5(12.5A), 1.2(12.5A)	5(2.5A), 3.3(2.5A), 2.5(2.5A), 1.8(2.5A), 1.5(2.5A), 1.2(2.5A)	-	-	55.9 x 40.7 x 12.7(max)
DH series	TRIPLE	18 - 36, 36 - 75, 18 - 75	12(2.5A), 5(2.5A), 3.3(2.5A), 2.5(2.5A), 1.8(2.5A), 1.5(2.5A)	±15(0.84A), ±12(1A), ±10(1.25A), ±5(2.5A)	±15(0.84A), ±12(1A), ±10(1.25A), ±5(2.5A)	-	55.9 x 40.7 x 11.43(max)
DH series	QUAD	18 - 36, 36 - 75, 18 - 75	±5(2.5A)	±5(2.5A)	±24(0.5A), ±15(0.84A), ±12(1A), ±10(1.25A)	±24(0.5A), ±15(0.84A), ±12(1A), ±10(1.25A)	55.9 x 40.7 x 11.43(max)
HS series	10A	9 - 18, 18 - 36, 36 - 75	24(2.5A), 15(4A), 12(5A), 9(6.7A), 5, 3.3				102 x 40.7 x 13.5



50W - 75W DC-DC Converters

DC/DC Wandler Module

25W - 50W DC-DC Converters							
Part Ref:	Amps / Outputs	Input Range (VDC)	Output 1 (VDC)	Output 2 (VDC)	Output 3 (VDC)	Output 4 (VDC)	Dims. (mm)
DH series	25A (max)	18 - 36, 36 - 75, 18 - 75	80(0.63A), 60(0.84A), 48(1.04A), 15(3.4A), 2(4.2A), 10(5A), (10A), 3.3(16A), .5(20A), 1.8, 1.5, 1.2	-	-	-	55.9 x 40.7 x 11.43(max)
DH series	DUAL (bipolar)	18 - 36, 36 - 75, 18 - 75	±15(1.67A), ±12(2.10A), ±10(2.5A), ±5(5A)	±15(1.67A), ±12(2.10A), ±10(2.5A), ±5(5A)	-	-	55.9 x 40.7 x 11.43(max)
DH series	DUAL	18 - 36, 36 - 75, 18 - 75	5(5A), 3.3(8A), 2.5(10A), 1.8(12.5A), 1.5(12.5A), 1.2(12.5A)	5(10A), 3.3(10A), 2.5(10A), 1.8(10A), 1.5(10A), 1.2(10A)	-	-	55.9 x 40.7 x 11.43(max)
DH series	DUAL	18 - 36, 36 - 75, 18 - 75	5(5A), 3.3(8A), 2.5(10A), 1.8(12.5A), 1.5(12.5A), 1.2(12.5A)	5(2.5A), 3.3(2.5A), 2.5(2.5A), 1.8(2.5A), 1.5(2.5A), 1.2(2.5A)	-	-	55.9 x 40.7 x 12.7(max)
DH series	TRIPLE	18 - 36, 36 - 75, 18 - 75	12(2.5A), 5(2.5A), 3.3(2.5A), 2.5(2.5A), 1.8(2.5A), 1.5(2.5A)	±15(0.84A), ±12(1A), ±10(1.25A), ±5(2.5A)	±15(0.84A), ±12(1A), ±10(1.25A), ±5(2.5A)	-	55.9 x 40.7 x 11.43(max)
DH series	QUAD	18 - 36, 36 - 75, 18 - 75	±5(2.5A)	±5(2.5A)	±24(0.5A), ±15(0.84A), ±12(1A), ±10(1.25A)	±24(0.5A), ±15(0.84A), ±12(1A), ±10(1.25A)	55.9 x 40.7 x 11.43(max)
H/HS series	10A	9 - 18, 18 - 36, 36 - 75	24(2.5A), 15(4A), 12(5A), 9(6.7A), 5, 3.3				102 x 40.7 x 13.5
SK40 series	8A	36 - 75	2.5(8A), 3.3(8A), 5(8A), 12(3.33A), 15(2.6A), 24(1.66A)	-	-	-	50.80 x 40.6 x 11.90
SK30 series	6A	36 - 75	24(1.25A), 15(2A), 12(2.5A), 5(6A), 5(6A), 3.3(6A)				50.8 x 40.6 x 11.90
SU40 series	8A	36 - 75	24(1.6A), 15 (2.6A), 12(3.3A), 5 (8A), 3.3(8A), 2.5(8A), 1.8(8A)	-	-	-	50.80 x 50.8 x 11.40
SU40 series	DUAL / TRIPLE	9 - 18, 18 - 36, 36 - 75	5(6A), ±5(4A), ±12(1.6A), ±15(1.32A)	±12(0.4A), ±15(0.3A)	±12(0.4A), ±15(0.3A)		50.8 x 50.8 x 11.40



25W - 50W DC-DC Converters

25W - 50W DC-DC Converters							
Part Ref:	Amps / Outputs	Input Range (VDC)	Output 1 (VDC)	Output 2 (VDC)	Output 3 (VDC)	Output 4 (VDC)	Dims. (mm)
SF30 series	6A	10 - 40 18 - 75	24(1.25A) 15 (2.0A) 12(2.5A) 5 (6A) 3.3(6A) 2.5(6A) 1.8(6A)	-	-	-	50.8 x 40.6 x 11.90
SF30 series	DUAL	10 - 40, 18 - 75	±15(1A), ±12(1.25A), ±5(3A)	±15(1A), ±12(1.25A), ±5(3A)	-	-	50.8 x 40.6 x 11.90
NI25 series	10A	3 - 3.6	3.3(10A) 2.5(10A) 2.1(10A) 1.8(10A) 1.5(10A)	-	-	-	51.0 x 8.6 x 14.0

up to 25W DC-DC Converters							
Range Ref:	Amps / Outputs	Input Range (VDC)	Output Single	Output Dual	Output Triple	Output Quad	Dims. (mm) (H x W x D)
ST20 series	5A	36 - 75 18 - 36	5(5A), 3.3(4.25A), 2.5(4.0A)	-	-	-	50.1 x 25.4 x 10.8
SU20 series	5A	9 - 18, 18 - 36, 10 - 40, 36 - 75, 18 - 75	24(0.83A), 15(1.3A), 12(1.67A), 5(4A), 3.3 (4A)	-	-	-	50.8 x 50.8 x 11.4
SU20 series	DUAL / TRIPLE	36 - 75 18 - 36	5(2.5A) ±5(2.0A), ±12(0.83A), ±15(0.66A),	±5(2.0A), ±12(0.30A), ±15(0.25A),	±5(2.0A), ±12(0.30A), ±15(0.25A),	-	50.8 x 50.8 x 11.4
FH series	320mA	10 - 15, 20 - 30, 40 - 60	48	-	-	-	51 x 51 x 5.1
FH series	130mA	10 - 15, 20 - 30, 40 - 60	110	-	-	-	51 x 51 x 5.1
E series	4A max	10 - 36, 18 - 75	24(0.63A), 15(1A), 12(1.25A), 5(3A), 3.3	-	-	-	50.8 x 40.645 x 11.7
E series	DUAL	10 - 36, 18 - 75	x15(0.5A), x12(0.63A), +5(2A), x5(1.5A)	+/-24(0.32A), x15(0.5A), x12(0.63A), +5(2A), x5(1.5A)	-	-	50.8 x 40.645 x 11.7
E series	TRIPLE	10 - 36, 18 - 75	+5(2A), +3.3(2A)	x15(0.25A), x12(0.32A)	x15(0.25A), x12(0.32A)	-	50.8 x 40.645 x 11.7
D series	3A max	9 - 18, 18 - 36, 36 - 75, (10 - 36, 18 - 75, 2A max)	24(0.6A), 15(1A), 12(1.25A), 5, 3.3	-	-	-	50.8 x 25.4 x 10.2
D series	DUAL	9 - 18, 18 - 36, 36 - 75, 10 - 36, 18 - 75	x15(0.50A max), x12(0.65A max), +5(1.5A)	x15(0.50A max), x12(0.65A max), +/- 12(0.63 max)	-	-	50.8 x 25.4 x 10.2



Examples of Powerstax DC-DC Converters from 15W to 25W

up to 25W DC-DC Converters							
Range Ref:	Amps / Outputs	Input Range (VDC)	Output Single	Output Dual	Output Triple	Output Quad	Dims. (mm) (H x W x D)
D series	TRIPLE	9 - 18, 18 - 36, 36 - 75, 10 - 36, 18 - 75	+5(1.5A max)	x15(0.25A), x12(0.32A)	x15(0.25A), x12(0.32A)	-	50.8 x 25.4 x 10.2
ST15 series	3A	9 - 18, 18 - 36, 10 - 40, 36 - 75, 18 - 75.	24(.625A), 15(1.0A), 12(1.25A), 5(3A), 3.3(3A)	-	-	-	50.1 x 25.4 x 10.8
ST15 series	DUAL	9 - 18, 18 - 36, 10 - 40, 36 - 75, 18 - 75,	±15(0.5A), ±12(0.63A), ±5(1.5A)	±15(0.5A), ±12(0.63A), ±5(1.5A)	-	-	50.1 x 25.4 x 10.8
ST10 series	2A	9 - 18, 18 - 36, 10 - 40, 36 - 75, 18 - 75.	24(0.425A), 15(0.63A), 12(0.83A), 5(2A), 3.3(2A)	-	-	-	50.1 x 25.4 x 10.8
ST10 series	DUAL	9 - 18, 18 - 36, 10 - 40, 36 - 75, 18 - 75,	±15(0.33A), ±12(0.415A), ±5(1.0A)	±15(0.33A), ±12(0.415), ±5(1.0A)	-	-	50.1 x 25.4 x 10.8
NI20 series	8A	4.5-5.5, 4.5-3.5, 7.0-3.5.	1.5, 1.8, 2.1, 2.5, 3.3, 5	-	-	-	63.6 x 7.0 x 14.0

up to 15W DC-DC Converters and PCB (SIP type) DC+DC Converter						
Range Ref:	Amps / Outputs	Input Range (VDC)	Output Single	Output Dual	Output Triple	Dims. mm (H x W X D)
FH series	320mA	10 - 15, 20 - 30, 40 - 60	48	-	-	51 x 51 x 5.1
FH series	130mA	10 - 15, 20 - 30, 40 - 60	110	-	-	51 x 51 x 5.1
E series	4A max	10 - 36, 18 - 75	24(0.63A), 15(1A), 12(1.25A), 5(3A), 3.3	-	-	50.8 x 40.645 x 11.7
E series	DUAL	10 - 36, 18 - 75	+/-15(0.5A), +/-12(0.63A), +5(2A), +/-5(1.5A)	+/-24(0.32A), +/-15(0.5A), +/-12(0.63A), +5(2A), +/-5(1.5A)	-	50.8 x 40.645 x 11.7
E series	TRIPLE	10 - 36, 18 - 75	+5(2A), +3.3(2A)	+/-15(0.25A), +/-12(0.32A)	x15(0.25A), x12(0.32A)	50.8 x 40.645 x 11.7



Examples of Powerstax DC-DC Converters up to 15W

up to 15W DC-DC Converters and PCB (SIP type) DC+DC Converter						
Range Ref:	Amps / Outputs	Input Range (VDC)	Output Single	Output Dual	Output Triple	Dims. mm (H x W X D)
D series	3A max	9 - 18, 18 - 36, 36 - 75, (10 - 36, 18 - 75, 2A max)	24(0.6A), 15(1A), 12(1.25A), 5, 3.3	-	-	50.8 x 25.4 x 10.2
D series	DUAL	9 - 18, 18 - 36, 36 - 75, 10 - 36, 18 - 75	+/-15(0.50A max), +/- 12(0.65A max), +5(1.5A)	+/-15(0.50A max), +/- 12(0.65A max), +/- 12(0.63 max)	-	50.8 x 25.4 x 10.2
D series	TRIPLE	9 - 18, 18 - 36, 36 - 75, 10 - 36, 18 - 75	+5(1.5A max)	+/-15(0.25A), +/-12(0.32A)	+/-15(0.25A), +/-12(0.32A)	50.8 x 25.4 x 10.2
CH series	4A	10 - 20, 18 - 36, 36 - 75, 10 - 30, 20 - 60	3.3, 5.0, 7.5, 9.0, 12, 15, 24, 28, 32, 48	-	-	31.8 x 20.3 x 10.2
CH series	DUAL (max 13W)	10 - 20, 18 - 36, 36 - 75, 10 - 30, 20 - 60	3.3, 5.0	3.3, 5.0	-	31.8 x 20.3 x 10.2
CH series	TRIPLE	10 - 20, 18 - 36, 36 - 75, 10 - 30, 20 - 60	5.0	3.3, 15	13.2, 15-	31.8 x 20.3 x 10.2