



CINCON ELECTRONICS

DC-DC CONVERTERS



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RAILWAY

DC-DC CONVERTERS








CB c IEC/UL 62368-1 | IEC/UL 60950-1 | EN50155:2017 | EN45545-2






DIP24 Package 8W & 10W

Series	Output Power	Input Voltage	Output Voltage	Eff.	Isolation Voltage	Package / Dimension (inch)
 EC6AW	8W	9~36V, 18~75V	3.3V, 5V, 12V, 15V, ±5V, ±12V, ±15V	Up to 86%	1500Vdc	1.25x0.80x0.40 (DIP24) 1.25x0.80x0.45 (SMD24)
EC6AW -110S 	10W	43~160V				






2"x1" Package 20W & 40W

Series	Output Power	Input Voltage	Output Voltage	Eff.	Isolation Voltage	Package / Dimension (inch)
 EC7BW	20W	9~36V, 18~75V	3.3V, 5V, 12V, 15V, ±5V, ±12V, ±15V	Up to 90%	1500Vdc	2.00x1.00x0.40 (DIP)
 EC7BW-110		43~160V	5V, 12V, 15V, ±12V, ±15V		3000Vdc	
 EC7BW18 		8.5~160V	5V, 12V, 15V, ±12V, ±15V, ±24V		Reinforced 3000Vac	
 ECLB40W-110	40W	43~160V	3.3V, 5V, 12V, 15V, ±12V, ±15V, ±24V	Up to 91%	3000Vdc	2.05x1.20x0.40 (DIP)



Quarter Brick Package 50W-150W

Series	Output Power	Input Voltage	Output Voltage	Eff.	Isolation Voltage	Package / Dimension (inch)
 CQB50W12 	50W	14~160V	5V, 12V, 24V, 48V	Up to 89%	3000Vdc	2.28x1.45x0.50 (Quarter Brick)
CQB60W-110S	60W	43~160V	5V, 12V, 15V, 24V, 28V, 48V	Up to 92%		
CQB75W8 	75W	9~75V	12V, 15V, 24V, 28V, 48V	Up to 90%	Reinforced 3000Vac	
CQB100-110S	100W	66~160V	3.3V, 5V, 12V, 24V	Up to 93%	2250Vdc	
CQB100W-110S 		43~160V	5V, 12V, 15V, 24V, 28V, 48V	Up to 92%	3000Vdc	
CQB150W	150W	9~36V, 18~75V	5V, 12V, 24V, 28V, 48V		2250Vdc	
CQB150W-110S 		43~160V	3.3V, 5V, 12V, 15V, 24V, 28V, 48V		3000Vdc	











Half Brick Package 100W-300W

Series	Output Power	Input Voltage	Output Voltage	Eff.	Isolation Voltage	Package / Dimension (inch)
 CHB100-110S	100W	66~160V	12V, 15V, 24V, 48V	Up to 89%	Reinforced 3000Vac	2.28x2.40x0.50 (Half Brick)
CHB150-110S	150W		5V, 12V, 24V	Up to 92.5%	2250Vdc	
CHB150W12 		14~160V	5V, 12V, 15V, 24V, 48V	Up to 90%	Reinforced 3000Vac	
CHB200W-110S 		200W	43~160V	5V, 12V, 24V, 28V, 48V	Up to 91%	3000Vdc
CHB200W12 	14~160V		12V, 15V, 24V, 48V	Up to 90%	Reinforced 3000Vac	
CHB300W-110S 	300W		43~160V	3.3V, 5V, 12V, 24V, 28V, 48V	Up to 91%	3000Vdc

Full Brick Package 600W

Series	Output Power	Input Voltage	Output Voltage	Eff.	Isolation Voltage	Package / Dimension (inch)
 CFB600W-110S 	600W	43~160V	12V, 24V, 28V, 48V	Up to 88%	2250Vdc	4.60x2.40x0.50 (Full Brick)

Chassis Mount Module 20W-600W

Series	Output Power	Input Voltage	Output Voltage	Eff.	Isolation Voltage	Package / Dimension (inch)		
 EC7BW18-72S/D-ECRT 	20W	9.5~160V	5V, 12V, 15V, ±12V, ±15V, ±24V	Up to 90%	Reinforced 3000Vac	4.45x2.33x0.85 (ECRT)		
EC7BW18-72S/D-EDRT						4.45x2.33x1.43 (EDRT)		
 CQB50W12-72SXX-CMFC(D) 	30-50W	14~160V	5V, 12V, 24V, 48V	Up to 89%	3000Vdc	4.60x2.40x1.26 (CMFC)		
 CQB150W-110SXX-CMFC(D) 	150W					3.3V, 5V, 12V, 15V, 24V, 28V, 48V	Up to 91%	4.60x2.49x1.35 (CMFD)
 CHB300W-110SXX-CMFC(D) 	300W					43~160V	3.3V, 5V, 12V, 24V, 28V, 48V	Up to 90.5%
 CFB600W-110SXX CMFD 	600W	12V, 24V, 28V, 48V	Up to 88%	2250Vdc	9.45x4.33x1.65 (CMFD)			




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IEC/UL 62368-1 | IEC/UL 60950-1



Non-isolated DC-DC Converter 0.666A-16A

Series	Output Power	Input Voltage	Output Voltage	Eff.	Package / Dimension (inch)
 EC5A	0.666~2A	4.7~6V, 9~32V, 16~32V, 19~32V	3.3V, 5V, 12V, 15V	Up to 94%	1.25x0.80x0.40 (DIP) 1.25x0.80x0.45 (SMD)
 SMT05-12	5A	8.3~14V	0.75~5V	Up to 92%	0.80x0.450x0.24
 SMT16W-12	16A	6~14V	0.7525~5V	Up to 94%	1.30x0.530x0.346







SIP Package 1W-2W Unregulated

Series	Output Power	Input Voltage	Output Voltage	Eff.	Isolation Voltage	Package / Dimension (inch)
 EC1TAN	1W	4.5~5.5V, 10.8~13.2V, 21.6~26.4V	5V, 12V, 15V	Up to 82%	1000Vdc	0.46x0.24x0.40 (SIP4) 0.46x0.30x0.40 (SIP4)
 EC1SAN			5V, 12V, 15V, ±5V, ±12V, ±15V	Up to 83%	1500Vdc	0.77x0.24x0.40 (SIP7) 0.77x0.28x0.40 (SIP7-24Vin) 0.54x0.36x0.29 (SMD-Single) 0.64x0.36x0.29 (SMD-Dual)
 EC2SAN	2W				Up to 86%	1000Vdc
 EC2SANH NEW			Up to 88%		3000Vdc	

SIP Package 2W-10W Regulated

Series	Output Power	Input Voltage	Output Voltage	Eff.	Isolation Voltage	Package / Dimension (inch)
	EC2SA	4.5~9V, 9~18V, 18~36V, 36~72V	3.3V, 5V, 12V, 15V, ±5V, ±12V, ±15V	Up to 84%	1500Vdc	0.86x0.36x0.44 (SIP8)
	EC3SA			Up to 86%		
	EC3SAW			Up to 86%		
	EC4SAW			Up to 89%		
 EC5SAW NEW	10W	18~75V, 9~36V	5V, 12V, 15V, 3.3V, ±5V, ±12V, ±15V	Up to 89.5%	3000Vdc	0.87x0.37x0.47 (SIP8)

DIP24 / SMD24 Package 3W-15W

Series	Output Power	Input Voltage	Output Voltage	Eff.	Isolation Voltage	Package / Dimension (inch)
	EC3A	4.5~6V, 9~18V, 18~36V, 36~72V	3.3V, 5V, 12V, 15V, ±5V, ±12V, ±15V	Up to 82%	500Vdc 1500Vdc 3000Vdc	1.25x0.80x0.40 (DIP24) 1.25x0.80x0.45 (SMD24)
	EC3AB			Up to 80%		1.25x0.80x0.50 (DIP24) 1.25x0.80x0.55 (SMD24)
	EC3A-E			Up to 87%		1.25x0.80x0.40 (DIP24) 1.25x0.80x0.45 (SMD24) 1.25x0.80x0.41 (SMD24)
	EC3AW			Up to 77%		1.25x0.80x0.40 (DIP24) 1.25x0.80x0.45 (SMD24)
 EC3AE		5V, 12V, 24V, 28V, 48V	5V, 12V, 15V, ±12V, ±15V	Up to 61%	500Vdc	1.25x0.80x0.40 (DIP24) 1.25x0.80x0.45 (SMD24)
	EC4A	9~18V, 18~36V, 36~72V	3.3V, 5V, 12V, 15V, ±5V, ±12V, ±15V	Up to 84%	500Vdc 1500Vdc 3000Vdc	1.25x0.80x0.40 (DIP24) 1.25x0.80x0.45 (SMD24)
	EC4AB			Up to 87%		1.25x0.80x0.50 (DIP24) 1.25x0.80x0.55 (SMD24)
	EC4A-E					1.25x0.80x0.40 (DIP24) 1.25x0.80x0.45 (SMD24) 1.25x0.80x0.41 (SMD24)
	EC4AW					Up to 83%
	EC4AW-H6	5-6W	9~36V, 18~72V	5V, 12V, +/-12V, +/-15V	Up to 85%	6000Vdc
	EC6A	7.5W	9~18V, 18~36V, 36~72V	Up to 87%	1500Vdc	1.25x0.80x0.40 (DIP24) 1.25x0.80x0.45 (SMD24)
	EC6AW	8W	9~36V, 18~75V	Up to 86%		
 EC6AW-110 NEW	10W	43~160V		Up to 88.5%	3000Vdc	1.25x0.80x0.50(DIP24)
	EC7A	10W	9~18V, 18~36V, 36~75V	Up to 89%	1500Vdc	1.25x0.80x0.40 (DIP24) 1.25x0.80x0.45 (SMD24)
	EC8AW	15W	9~36V, 18~75V	Up to 90%		1.25x0.80x0.40(DIP24)



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1"x1" Package 10W-30W

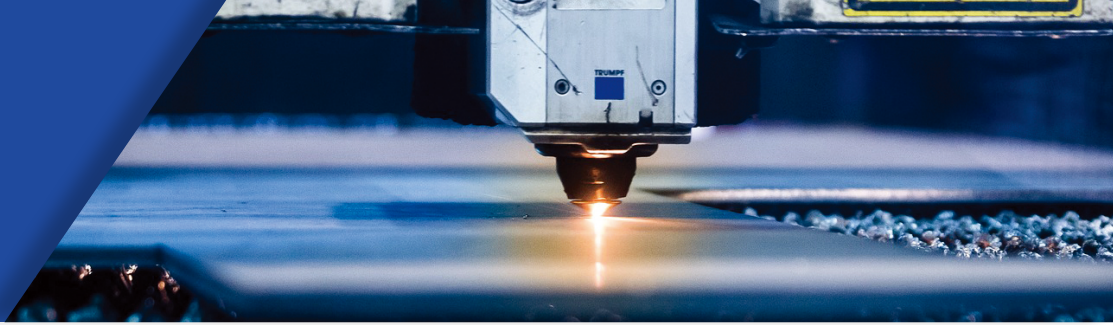
Series	Output Power	Input Voltage	Output Voltage	Eff.	Isolation Voltage	Package / Dimension (inch)	
	EC2SB	10W	4.7~9V, 9~18V, 18~36V, 36~75V	3.3V, 5V, 12V, 15V, ±5V, ±12V, ±15V	1500Vdc	1.00x1.00x0.40 (DIP) 1.00x1.00x0.36 (SMD)	
	EC2SBW		9~36V, 18~75V			1.00x1.00x0.40(DIP)	
	EC3SB	15W	9~18V, 18~36V, 36~75V	Up to 90%		1.00x1.00x0.40 (DIP) 1.00x1.00x0.36 (SMD)	
	EC3SBW			Up to 88%			
	EC4SBW 	20W	9~36V, 18~75V	3.3V, 5V, 12V, 15V, ±12V, ±15V		Up to 90.5%	1.00x1.00x0.40(DIP)
	EC5SBW	30W				Up to 90%	

2"x1" Package 10W-75W

Series	Output Power	Input Voltage	Output Voltage	Eff.	Isolation Voltage	Package / Dimension (inch)
	EC4BE	10W	9~18V, 18~36V, 36~72V	Up to 82%	500Vdc	2.00x1.00x0.40 (DIP)
	EC4BU		4.7~9V, 9~18V, 18~36V, 36~75V	Up to 87%	1500Vdc	
	EC4BW		9~36V, 18~72V	Up to 82%	500Vdc	
	EC5BU	15W	9~18V, 18~36V, 36~75V	Up to 90%	1500Vdc	2.00x1.00x0.40 (DIP)
	EC5BE		9~18V, 18~36V, 36~72V	Up to 83%	500Vdc	
	EC5BW		9~36V, 18~75V	Up to 88%	1500Vdc	
  	EC7B	20W	9~18V, 18~36V, 36~75V	Up to 90%	1500Vdc	2.00x1.00x0.40 (DIP)
	EC7BW		9~36V, 18~75V		3.3V, 5V, 12V, 15V, ±5V, ±12V, ±15V	
	EC7BW-110		43~160V		5V, 12V, 15V, ±12V, ±15V	3000Vdc
	EC7BW18 		8.5~160V		5V, 12V, 15V, ±12V, ±15V, ±24V	Reinforced 3000Vac
	EC9BW	30W	9~36V, 18~75V	Up to 92%	1500Vdc	2.05x1.20x0.40 (DIP)
	ECLB40W	40W	9~36V, 18~75V	Up to 91%	1500Vdc	
	ECLB40W-110		43~160V		3.3V, 5V, 12V, 15V, ±12V, ±15V, ±24V	
ECLB60W	60W	9~36V, 18~75V	3.3V, 5V, 12V, 15V, ±12V, ±15V	Up to 92%	1500Vdc	
ECLB75W 	75W	18~75V, 9~36V	5V, 12V, 15V, ±12V, ±15V, ±24V	Up to 92.5%	2250Vdc	





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2"x1.6" & 2"x2" Package 15W-40W

Series	Output Power	Input Voltage	Output Voltage	Eff.	Isolation Voltage	Package / Dimension (inch)
 EC5C	15W	9~36V, 18~72V	3.3V, 5V, 12V, 15V, 5/±12V, 5/±15V, ±5V, ±12V, ±15V	Up to 84%	500Vdc	2.00x2.00x0.40 (DIP)
 EC1SC	20W		3.3V, 5V, 12V, 15V, ±5V, ±12V, ±15V	Up to 84%	1500Vdc	2.00x1.60x0.45 (DIP)
 EC6C	30W	9~18V, 18~36V, 36~72V	3.3V, 5V, 12V, 15V, 5/±12V, 5/±15V, ±5V, ±12V, ±15V	Up to 88%	500Vdc	2.00x2.00x0.40 (DIP)
 EC7C	40W	9~18V, 18~36V, 36~75V	2.5V, 3.3V, 5V, 12V, 15V, 3.3/5V, 3.3/±12V, 3.3/±15V, 5/±12V, 5/±15V, ±12V, ±15V	Up to 93%	1500Vdc	

Quarter Brick Package 50W-150W

Series	Output Power	Input Voltage	Output Voltage	Eff.	Isolation Voltage	Package / Dimension (inch)
 CQE50W	50W	9~36V, 18~75V	3.3V, 5V, 12V, 15V, 24V, 48V	Up to 92%	1500Vdc	2.28x1.45x0.50 (Quarter Brick)
CQB50W12 	50W	14~160V	5V, 12V, 24V, 48V	Up to 89%	3000Vdc	
CQB60W-110S	60W	43~160V	5V, 12V, 15V, 24V, 28V, 48V	Up to 92%		
CQB75W	75W	9~36V, 18~75V	3.3V, 5V, 12V, 15V, 24V	Up to 87%	1500Vdc	
CQB75W8 		9~75V	12V, 15V, 24V, 28V, 48V	Up to 90%	Reinforced 3000Vac	
 CQB100-110S	100W	66~160V	3.3V, 5V, 12V, 24V	Up to 93%	2250Vdc	
CQB100W		9~36V, 18~75V	3.3V, 5V, 12V, 15V, 24V	Up to 88%	1500Vdc	
CQB100W-110S 		43~160V	5V, 12V, 15V, 24V, 28V, 48V	Up to 92%	3000Vdc	
CQB150-300S 		180~425V	5V, 12V, 15V, 24V, 28V, 48V	Up to 89%	Reinforced 3000Vac	
CQB150W	150W	9~36V, 18~75V	5V, 12V, 24V, 28V, 48V	Up to 92%	2250Vdc	
CQB150W-110S 		43~160V	3.3V, 5V, 12V, 15V, 24V, 28V, 48V	Up to 92%	3000Vdc	

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Half Brick Package 50W-350W

Series	Output Power	Input Voltage	Output Voltage	Eff.	Isolation Voltage	Package / Dimension (inch)	
	CHB50	50W	9~18V, 18~36V, 36~75V	3.3V, 5V, 12V, 15V, 24V	Up to 89%	1500Vdc	2.28x2.40x0.50 (Half Brick)
	CHB50W		9~36V, 18~75V	3.3V, 5V, 12V, 15V, 24V, 28V, 48V	Up to 87%		
	CHB75	75W	9~18V, 18~36V, 36~75V	3.3V, 5V, 12V, 15V, 24V	Up to 89%		
	CHB75W		9~36V, 18~75V	3.3V, 5V, 12V, 15V, 24V, 28V, 48V	Up to 85%		
	CHB100	100W	18~36V, 36~75V	3.3V, 5V, 12V, 15V, 24V	Up to 89%		
	CHB100W		9~36V, 18~75V	3.3V, 5V, 12V, 15V, 24V, 28V, 48V	Up to 89%		
	CHB150	150W	36~75V	3.3V, 5V, 12V, 15V, 24V	Up to 89%		
	CHE100W	100W	9~36V, 18~75V	3.3V, 5V, 12V, 15V, 24V, 48V	Up to 93%	1500Vdc	2.28x2.40x0.50 (Half Brick)
	CHB100-110S	150W	66~160V	12V, 15V, 24V, 48V	Up to 89%	Reinforced 3000Vac	
	CHB150-110S		66~160V	5V, 12V, 24V	Up to 92.5%	2250Vdc	
	CHB150W	9~36V, 18~75V	3.3V, 5V, 12V, 15V, 24V, 28V, 48V	Up to 91%	1500Vdc		
	CHB150W8	9~75V	12V, 15V, 24V, 28V, 48V	Up to 90%			
	CHB150W12 	14~160V	5V, 12V, 15V, 24V, 48V	Up to 90%	Reinforced 3000Vac		
	CHB200W-110S 	200W	43~160V	5V, 12V, 24V, 28V, 48V	Up to 91%	3000Vdc	
	CHB200W	10~36V, 18~75V	3.3V, 5V, 12V, 15V, 24V, 28V, 48V	Up to 89%	1500Vdc		
	CHB200W12 	14~160V	12V, 15V, 24V, 48V	Up to 90%	Reinforced 3000Vac		
	CHB300-300S 	300W	180~425V	5V, 12V, 24V, 28V, 48V	Up to 90%	Reinforced 3000Vac	
	CHB300W-110S 		43~160V	3.3V, 5V, 12V, 24V, 28V, 48V	Up to 91%	3000Vdc	
	CHB300W		9~36V, 18~75V	5V, 12V, 15V, 24V, 28V, 48V	Up to 92%	1500Vdc	
	CHB350	350W	18~36V, 36~75V	3.3V, 5V, 12V, 24V, 28V, 48V	Up to 92.5%		

Full Brick Package 400W-750W



Series	Output Power	Input Voltage	Output Voltage	Eff.	Isolation Voltage	Package / Dimension (inch)	
	CFB400W	400W	9~36V, 18~75V	5V, 12V, 24V, 28V, 48V	Up to 90%	1500Vdc	4.60x2.40x0.50 (Full Brick)
	CFB600	600W	18~36V, 36~75V	12V, 24V, 28V, 32V, 48V	Up to 92%		
	CFB600-300S		180~425V	12V, 24V, 48V	Up to 91%	Reinforced 3000Vac	
	CFB600W-110S 		43~160V	12V, 24V, 28V, 48V	Up to 88%	2250Vdc	
	CFB750-300S 	750W	200~425V	12V, 15V, 24V, 28V, 36V, 48V	Up to 91%	Reinforced 3000Vac	

Chassis Mount / Din Rail 20W-600W




Series	Output Power	Input Voltage	Output Voltage	Eff.	Isolation Voltage	Package / Dimension (inch)
 EC7BW18-72S/D-ECRT  EC7BW18-72S/D-EDRT NEW	20W	9.5~160V	5V, 12V, 15V, ±12V, ±15V, ±24V	Up to 90%	Reinforced 3000Vac	4.45x2.33x0.85 (ECRT) 4.45x2.33x1.43 (EDRT)
 CQB50W12-72SXX-CMFC(D) NEW	30-50W	14~160V	5V, 12V, 24V, 48V	Up to 89%	3000Vdc	4.60x2.40x1.26 (CMFC) 4.60x2.49x1.35 (CMFD)
 CHB/CHE50-100W-CM/DIN	33-100W	9~36V, 18~75V	3.3V, 5V, 12V, 15V, 24V, 28V, 48V	Up to 93%	1500Vdc	4.61x2.54x1.03
 CQB/CQE50-150W-CM/DIN	33-150W	9~36V, 18~75V, 43~160V, 66~160V	3.3V, 5V, 12V, 15V, 24V, 28V, 48V	Up to 92%	2250Vdc	4.41x1.57x1.98
 CQB150-300SXX-CMFC(D) NEW  CQB150W-110SXX-CMFC(D) NEW  CHB300-300SXX-CMFC(D) NEW  CHB300W-110SXX-CMFC(D) NEW	150W	180~425V	5V, 12V, 15V, 24V, 28V, 48V	Up to 89%	Reinforced 3000Vac	4.60x2.40x1.26 (CMFC) 4.60x2.49x1.35 (CMFD)
	300W	180~425V	5V, 12V, 24V, 28V, 48V	Up to 90%	Reinforced 3000Vac	
	43~160V	3.3V, 5V, 12V, 24V, 28V, 48V	Up to 91%	3000Vdc	6.50x3.00x1.52 (CMFC) 6.50x3.09x1.57 (CMFD)	
	43~160V	3.3V, 5V, 12V, 24V, 28V, 48V	Up to 90.5%	3000Vdc		
 CFB600W-110SXX-CMFD NEW	600W	43~160V	12V, 24V, 28V, 48V	Up to 88%	2250Vdc	9.45x4.33x1.65

Ultra-wide Input Range 20W-200W


8:1 Input Range

Series	Output Power	Input Voltage	Output Voltage	Eff.	Isolation Voltage	Package / Dimension (inch)
 CQB75W8 NEW	75W	9~75V	12V, 15V, 24V, 28V, 48V	Up to 90%	Reinforced 3000Vac	2.28x1.45x0.50 (Quarter Brick)
 CHB150W8	150W				1500Vdc	2.28x2.40x0.50 (Half Brick)





12:1 Input Range

Series	Output Power	Input Voltage	Output Voltage	Eff.	Isolation Voltage	Package / Dimension (inch)
 CQB50W12 NEW	50W	14~160V	5V, 12V, 24V, 48V	Up to 89%	3000Vdc	2.28x1.45x0.50 (Quarter Brick)
 CHB150W12 NEW	150W		5V, 12V, 15V, 24V, 48V	Up to 90%		
 CHB200W12 NEW	200W		12V, 15V, 24V, 48V			





18:1 Input Range

Series	Output Power	Input Voltage	Output Voltage	Eff.	Isolation Voltage	Package / Dimension (inch)
 EC7BW18 NEW	20W	8.5~160V	5V, 12V, 15V, ±12V, ±15V, ±24V	Up to 90%	Reinforced 3000Vac	2.00x1.00x0.40 (DIP)

High Input Voltage 150W-750W

Series	Output Power	Input Voltage	Output Voltage	Eff.	Isolation Voltage	Package / Dimension (inch)
 CQB150-300S NEW	150W	180~425V	5V, 12V, 15V, 24V, 28V, 48V	Up to 89%	Reinforced 3000Vac	2.28x1.45x0.50 (Quarter Brick)
 CHB300-300S NEW	300W		5V, 12V, 24V, 28V, 48V	Up to 90%		2.28x2.40x0.50 (Half Brick)
 CFB600-300S	600W		12V, 24V, 48V	Up to 91%		4.60x2.40x0.50 (Full Brick)
 CFB750-300S NEW	750W	200~425V	12V, 15V, 24V, 28V, 36V, 48V			

EMI Filter

Series	Output Power	Input Voltage	Feature	Package / Dimension (inch)
 FM05D NEW	5A	200V	Input 200V Max.	2.28x1.45x0.50
 FM10D NEW	10A			2.28x2.40x0.97
 FM10/20	10A / 20A	75V	Input 75V Max.	2.00x1.00x0.46 2.00x1.60x0.50
 FM30R	30A	80V	Input 80V Max.	2.28x1.45x0.50



POWERING YOUR IDEAS

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