



CINCON ELECTRONICS CO., LTD.

COMPANY INTRODUCTION

Powering Your Ideas



About the Company

Who We Are

- Global designer and manufacturer of high power density and quality power supplies. **Largest** high power density dc-dc converters available in the World.
- Strong R&D engineering team based in Taiwan, manufacturing in our own ISO9001 factories both in Taiwan and China.
- Target markets: Industrial, Automation, Telecom, Medical & Labs, Railway, Military, Consumer, Defense & Broadcasting
- International sales distribution network in Europe, North America, Japan and Pan-Asia.



About the Company

Our Vision

- Be the Best Power Supply Company Brand with Top Level Power Technology



EMPLOYEES



Sales

15 People



R&D

77 People



Manufacture

500 People



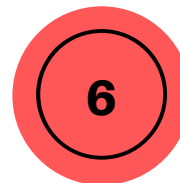
Quality Control

22 People



Administration

17 People



Finance

21 People

Why Choose CINCON

- OVER 25000 STANDARD DC-DC AND AC-DC MODELS
- STRONG R&D ON PROVIDING TECHNICAL SUPPORT
- FLEXIBLE MODIFICATION & CUSTOM SERVICE
- QUICK L/T & FAST SAMPLING



OUR LOCATIONS



OUR PROPERTIES



TAIWAN FACTORY

- Located in Chung Hua, Taiwan
- Established in 1991
- 6,611 square meters (Building)
- 7,360 square meters (Land)



CHINA FACTORY

- Located in Dongguan Guandong, P.R. China
- Established in 1999
- New factory established in 2007
- 15840 square meters (Building)

New factory building under construction in DG, China



- Located in DG, China
- Scheduled to open in Q4, 2023
- 13000 square meters (Building)

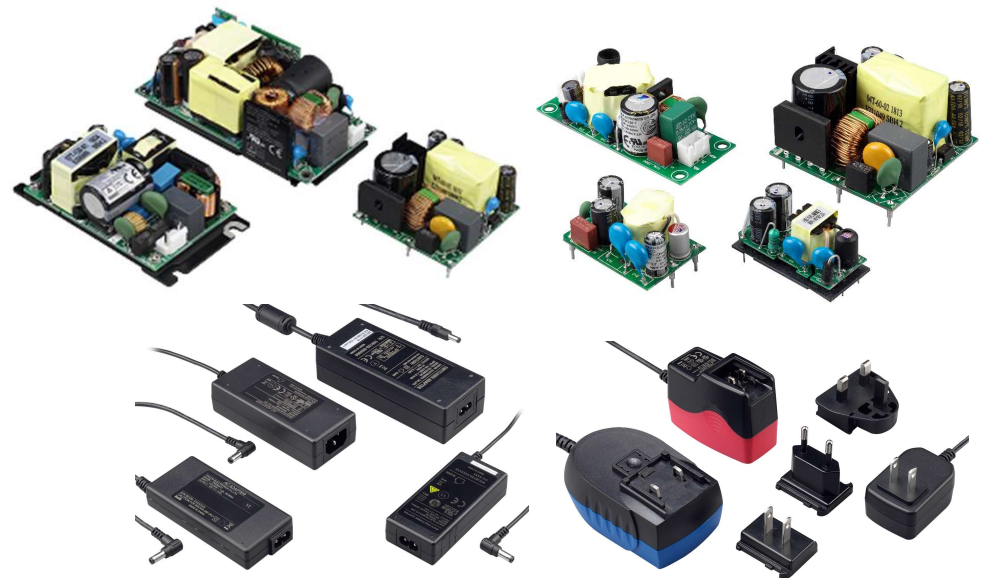


PRODUCT LINE OVERVIEW



DC/DC CONVERTERS

DC/DC converter ranging from 1W to 1000W



AC/DC POWER SUPPLIES

External Power Supply from 5W to 220W

Internal Power Supply from 4W to 750W

DC DC PRODUCT LINE OVERVIEW

Power Supply	Category	Wattage Range	Features
DC-DC	Brick Type	33 - 1200W	Quarter, half and full bricks 2:1, 4:1, 8:1, 12:1 Input range
	Railway	6.6W - 600W	EN 50155, UL 62368-1, UL 60950-1 EN 45545-2, Shock & Vibration
	Low Power	1 - 75W	SIP, SMD, DIP 24, 1x1, 2x1" 1x1.6", 2x2", 2.05x1.2" Up to 18:1 Input Range
AC-DC	ITE & Industrial	4 - 700W	Open frame, Encapsulated, Base-plate cooled (IEC/EN62368-1)
	Medical	15 - 500W	Open frame, Encapsulated, Adapters, Base-plate cooled (IEC/EN 60601-1)

DC/DC Converter

Input Voltage (Range)	Case Size	Output Voltage (V) and Max Power (W)								
		3.3V	5V	12V	15V	24V	28V	32V	36V	48V
Input Range 2:1 4:1										
24Vdc (18-36Vdc & 9-36Vdc)	2" x 1" pin out	49.5W	60W 75W	60W 75W	60W 75W					
	Quarter Brick	100W	150W	150W	100W	200W	200W			150W
	Half Brick	231W	350W	350W	300W	350W	800W			350W
	Full Brick		400W	600W		600W	600W	600W		600W
48Vdc (36-75Vdc & 18-75Vdc)	2" x 1" pin out	49.5W	60W	60W	60W					
	Quarter Brick	100W	150W	150W	100W	150W	150W			150W
	Half Brick	231W	350W	350W	200W	350W	350W			350W
	Full Brick		400W	600W		600W	700W	600W		600W
110Vdc (66-160Vdc & 43-160Vdc)	2" x 1" pin out	33W	40W	40W	40W					
	Quarter Brick	99W	150W	150W	60W	150W	150W			150W
	Half Brick	198W	300W	300W	100W	300W	300W			300W
	Full Brick			600W		600W	600W			600W
300Vdc (180-425Vdc & 200-425Vdc & 180-450Vdc)	2" x 1" pin out									
	Quarter Brick	49.5W	75W 150W	75W 150W	75W 150W	75W 150W	150W			75W 150W
	Half Brick		300W	300W		300W	300W			300W
	Full Brick			750W 1000W	750W	750W	750W		750W	750W

DC/DC Bricks : Ultra-wide Input Range

Input Voltage (Range)	Case Size	Output Voltage (V) and Max Power (W)								
		3.3V	5V	12V	15V	24V	28V	32V	36V	48V
Input Range 8:1 12:1										
36Vdc (9-75Vdc)	Quarter Brick		75W	50W 75W	50W 75W	50W 75W	50W 75W			50W 75W
	Half Brick		150W	150W	150W	150W	150W			150W
72Vdc (14-160Vdc)	DIP-24		10W	10W	10W					
	2" x 1"		40W	40W	40W					
	Quarter Brick		30W	50W		50W				
	Half Brick		150W	150W 200W	150W 200W	150W 200W				150W 200W



DC/DC Ultra-wide Input Converter : CQB50W12-72S12 / S05

Application summary:

- Electrical Substation Monitoring

Real Needs:

- Vin 18-75V dc, 5V 2A and 12V at 2A with case operating temp. 80°C
- Quarter brick size and required 20mm height without heatsinks, 40mm height with proper heatsink

Competitor:

- Ericsson PKM4511E PIHS / PKM4513E PIHS

Why did Cincon win-design?

- Cincon product covers wider input range (12:1) than Ericsson does. (2:1 => 36V~75Vdc which can ONLY cover 48V)
- Ultra-wide input range simplify model combination and inventory cost.
- High Operative temperature
- Size



Quarter Brick Size



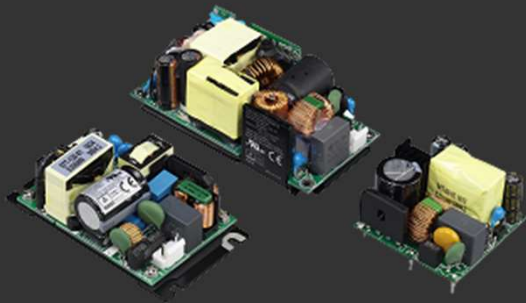
DC/DC Railway Total Solution

CMFC/CMFD Series - Built-in EMI filter complying with EN50155 to be the total solution for railway application

WATT	MODEL	INPUT	OUTPUT	% EFF.
		VOLTAGE	VOLTAGE	
20	EC7BW18-ECRT/EDRT	10-160VDC	5, 12, 15, ± 12 , ± 15 , ± 24 VDC	Up to 88%
30-50	CQB50W12-72Sxx-CMFC / D	14-160VDC	5, 12, 24, 48VDC	Up to 88%
50	CQB50W8-36Sxx-CMFC / D	9-75VDC	12, 15, 24, 28, 48VDC	Up to 91%
75	CQB75W8-36Sxx-CMFC / D	9-75VDC	12, 15, 24, 28, 48VDC	Up to 90%
100	CQB100W-110Sxx-CMFC / D	43-160VDC	5, 12, 15, 24, 28, 48VDC	Up to 91%



AC/DC Power Supplies



AC-DC EXTERNAL POWER SUPPLY FROM 5W TO 220W AC-DC INTERNAL POWER SUPPLY FROM 5W TO 700W

- Open Frame / Encapsulated / Enclosed / Base-Plate Cooled

- Medical (EN 60601-1) & ITE (EN 62368-1) approved
- Compact size & Low profile
- High Power Density , High Efficiency & Fanless design
- DoE Level VI & CoC Tier 2
- Low no load power consumption 0.5W, 0.3W, 0.15W & 0.075W
- Short Circuit Protection , OVP , OCP & OTP
- Operating Temperature from -40°C
- Application: Industrial, ITE, Test Instrument, Lighting, Medical
- Parallelable for reaching higher Power



AC/DC Power Supplies

Type	Power Range	Input Voltage	Output Voltage	Application	Efficiency (Max.)	Operating Temperature (°C)	Safety Approval
Wall-Mount	6W-30W	90-264VAC	5V-24V	ITE/Industrial	88%	"-20 to 60", "-20 to 80",	IEC/UL 62368-1, CE
	15W-30W	90-264VAC	5V-24V	Medical	88%	"0 to 60", "0 to 70", "-25 to 70", "-30 to 70"	UL, TUV, CE, IEC/EN 60601, 2 MOPP
Desk-Top	36W-220W	90-264VAC	5V-56V	ITE/Industrial	93%	"-20 to 60", "-20 to 70", "-30 to 60", "-30 to 70"	IEC/UL 62368-1, CE
	25W-220W	80-264VAC, 90-264VAC	5V-48V	Medical	93%	"0 to 60", "-20 to 60", "-20 to 70", "-30 to 60", "-30 to 70"	UL, TUV, CE, IEC/EN 60601, 2 MOPP
Open Frame	5W-500W	80-264VAC, 85-264VAC, 90-264VAC	3.3V-48V	ITE/Industrial	94.5%	"0 to 60", "0 to 70", "-20 to 80", "-30 to 70", "-30 to 80", "-40 to 75", "-40 to 80", "-40 to 85"	IEC/UL 62368-1, CE
	20W-500W	80-264VAC, 90-264VAC	3.3V-48V	Medical	94.5%	"-20 to 70", "-25 to 70", "-30 to 70", "-20 to 80", "-40 to 80", "-40 to 85"	UL, TUV, CE, EN 60601, 2 MOPP
BRICKS	70W-700W	90-264VAC	12V-48V	ITE/Industrial	90%	"-40 to 85", "-40 to 100"	IEC/UL 62368-1, CE

AC/DC Brick Power

70W, 100W, 150W, 700W

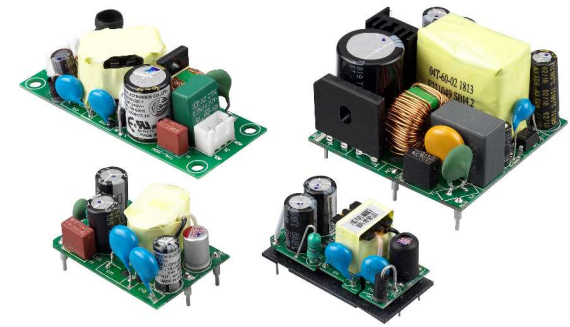
Product	CBM70S series	CBM101S series	CBM150S series	PDF700S series
Size	Half a brick	Full brick	Full brick	Full brick
Operating temperature	-40°C ~ 85°C	-40°C ~ 85°C	-40°C ~ 85°C	-40°C ~ 100°C
EMI specification	EN 55032 Class B CISPR/ FCC Class B	EN 55032 Class B CISPR/ FCC Class B	EN 55032 Class B CISPR/ FCC Class B	EN 55032 Class B CISPR/ FCC Class B
Safety regulations	IEC/EN/UL 62368 Class II Complies with IEC/EN 60335 (household)	IEC/EN/UL 62368 Class I	IEC/EN/UL 62368 Class I	IEC 62368 Class II Complies with IEC/EN 60335 (household)
Efficiency	89.5%	94.5%	94.5%	90%
No Load power	No-load power consumption < 0.15W	No-load power consumption < 0.5W	No-load power consumption < 0.5W	No-load power consumption < 3W
Operating altitude range	5000m	5000m	5000m	3000m
Protection	Short circuit protection OVP OCP OTP	Short circuit protection OVP OCP OTP	Short circuit protection OVP OCP OTP	Short circuit protection OVP OCP OTP



New Generation - Open Frame with PEAK POWER

25W 40W 60W 80W

FEATURES	CFM25S series	CFM41S series	CFM61S series	CFM81S series
Size	1"x2"	2"x 2"	2"x2"	2"x 3"
Output	5V, 12V, 15V, 24V, 36V, 48V	5V, 12V, 15V, 24V, 36V, 48V	5V, 12V, 15V, 24V, 36V, 48V	12V, 15V, 24V, 48V
Operating Temp.	-30 °C to 70°C	-40 °C to 85°C	-30 °C to 70°C	-30 °C to 80°C
EMI	EN 55032 Class B CISPR/ FCC Class B Heavy Industrial	EN 55032 Class B CISPR/ FCC Class B	EN 55032 Class B CISPR/ FCC Class B Heavy Industrial	EN 55032 Class B CISPR/ FCC Class B
Safety	IEC/EN/UL 62368 Meet IEC/EN 60335 (household) Class II	IEC/EN/UL 62368 Meet IEC/EN 60335 (household) Class II	IEC/EN/UL 62368 Meet IEC/EN 60335 (household) Class II	IEC/EN/UL 62368 Meet IEC/EN 60335 (household) Class I & Class II
Efficiency	87%	88%	90%	91%
No Load	No load power consumption < 100mW	No load power consumption < 150mW	No load power consumption < 150mW	No load power consumption < 300mW
Peak Load	Double power peak 50W (<10sec)	Double power peak 80W (<10sec)	Double power peak 120W (<10sec)	Double power peak 160W (<10sec)
Protection	OVP , OLP , Short Circuit	OVP , OLP , Short Circuit	OVP , OLP , Short Circuit	OVP , OLP , Short Circuit
Package	Open Frame , Encapsulation , JST housing	Open Frame , Encapsulation , JST housing	Open Frame , Encapsulation , JST housing	JST housing



AC/DC Peak Load Power : CFM81S120, CFM81S240

Application summary:

- Controlling Opening Gate Motor

Real Needs:

- 100W Peak power availability requested at Motor Starting
- Small size in 3" x 2"
- Self recovery protections (short circuit , over voltage, current)

Competitor:

- CUI VOF-85-12, VOF-85-24 (4" x 2")

Why did Cincon win-design?

- 80W in 3" x 2" size, compact Size and high power density
- Provides **200% peak load** which is 160W=> cost efficiency because no need to buy 100W PSU



3"x 2"

Cover Type Available

