



### Features:

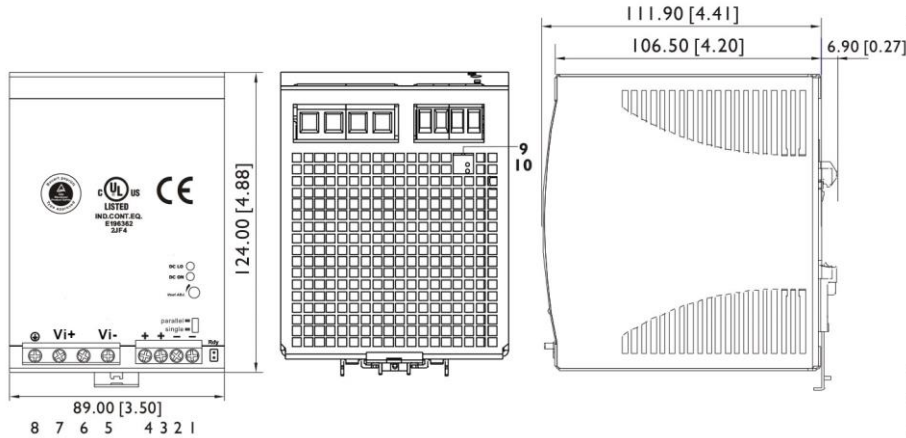
- High voltage input
- SELV components design
- Short circuit protection
- Internal input filter
- Over temperature protection
- Parallel function available (switch)

### Specifications

Model	CF240-DD24-H	CF240-DD48-H	
Output	Dc voltage	24V	48V
	Rated current	7.5A	3.75A
	Rated power	180W	180W
	Voltage adj. Range	22.5 - 28.5VDC	47 - 56VDC
	DC ON indicator threshold At start up (Green LED)	17.6 - 19.4V	37 - 43V
	DC LOW indicator threshold After start up (Red LED)	17.6 - 19.4V	37 - 43V
	Line regulation	±1.0%	
	Ripple + noise max.	100mVp-p	
	Load regulation	±1.0% single mode ±5.0% parallel mode	
	Setup - rise time	1000ms - 150ms	
Input	Voltage range	240 - 820VDC	
	Efficiency (typ.)	Min 88%, typ 90%	Min 89%, typ 91%
	DC current (typ.)	1A @600VDC	
	Inrush current	Max 25A	
Protection	Overload	110-135% rated output power	
	Over voltage	30 - 33V	60 - 66V
	Over temperature	100~110°C Detect on heat sink, shut down O/P voltage, recovers automatically after temperature goes down.	
	Output short circuit	Hiccup mode	
Environment	Working temp.	-30 - +70°C (refer to "derating curve")	
	Working humidity	20-95% RH non-condensing	
	Storage temp. Humidity	-40 - +85°C 10-95 RH	
	Temp. Coefficient	±0.03% / °C (0-50°C)	
	Vibration	meet IEC 60068-2-6 (Mounting on rail : 10-500 Hz, 2G, along X, Y,Z each Axis, 60 min for each Axis )	
Safety and EMC	Shock	meet IEC 60068-2-27 (15G, 11ms, 3 Axis, 6 Faces, 3 times for each Face)	
	Safety standards	UL 508 Listed UL 60950-1 Recognized ISA 12.12.01(Class I, Division 2, Groups A, B, C and D) EN 60950-1 EN 61558-1, EN 61558-2-16 (meet EN 60204-1) EN 61000-6-3, EN 55032 class B, EN 61000-3-2, EN 61000-3-3 EN 61000-6-2, EN 55024, EN 61000-4-2 Level 4, EN 61000-4-3 Level 3 EN 61000-4-4 Level 4, EN 61000-4-5 L-N Level 3, L / N-FG Level 4 EN 61000-4-6 Level 3, EN 61000-4-8 Level 4, EN 61000-4-11 ENV 50204 Level 2, EN 61204-3	
Others	MTBF	520K hrs min. Bellcore Issue 6 @40°C, GB	560K hrs min. Bellcore Issue 6 @40°C, GB
	Parallel operation	Max 2 units	
	Dimension	124x89x118.8mm (LxWxH)	

## Mechanism & Pin Configuration

mm [inch]



### CONSTRUCTION

Easy snap-on mounting onto the DIN-Rail (TS35/7.5 or TS35/15), unit sits safely and firmly on the rail.

### INSTALLATION

Ventilation / Cooling  
 Normal convection  
 All sides 25mm free space  
 For cooling recommended  
 Connector size range  
 AWG24-10 (0.2~4mm<sup>2</sup>) flexible / solid cable,  
 -Input connector can withstand torque at maximum 9 pound-inches.  
 -Output connector can withstand torque at maximum 5.5 pound-inches.  
 8 m/m stripping at cable end recommends  
 Use copper conductors only, 60 / 75°C

### GENERAL TOLERANCE

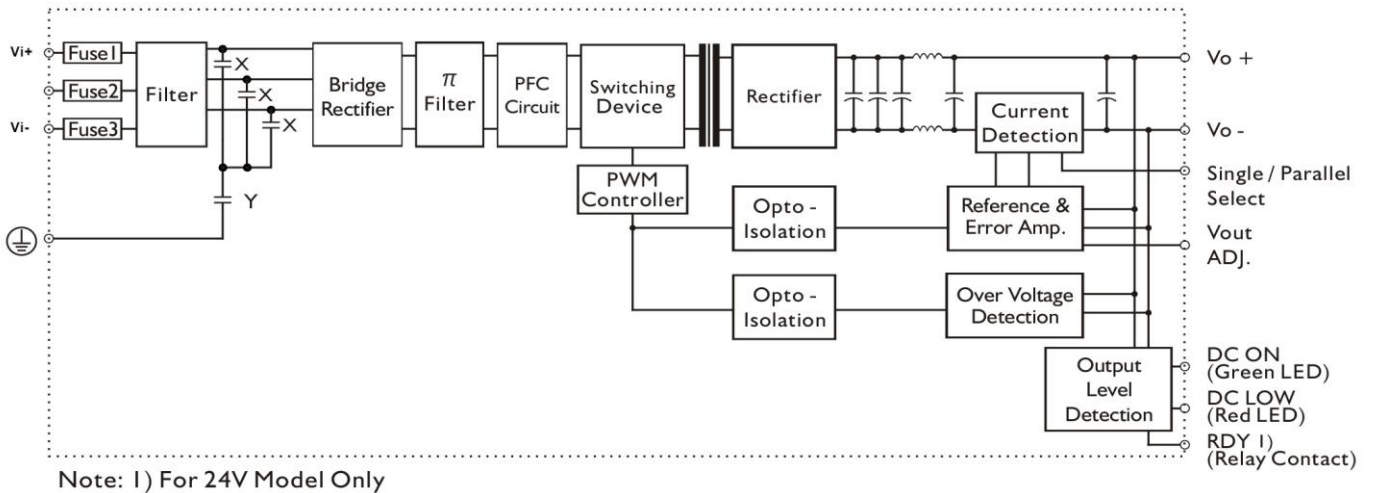
0.00[0.00] - 30.00[1.18]	±0.30[0.01]
30.00[1.18] - 120.00[4.72]	±0.50[0.02]
120.00[4.72] - 400.00[15.75]	±0.80[0.03]

Pin no	Designation	Description
1, 2	V-	Negative output terminal
3, 4	V+	Positive output terminal
5	Vi-	Negative input terminal
6		Not used
7	Vi+	Positive input terminal
9, 10	Rdy	A normal open relay contact for DC ON level control. 24V model only

Designation	Description
DC ON	Operation indicator LED
DC LO	DC LOW voltage indicator LED
Vout ADJ.	Trimmer-potentiometer for Vout adjustment
S/P	Single / Parallel select switch

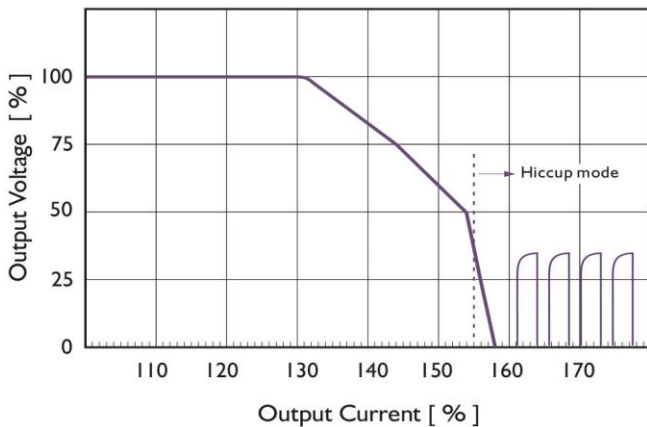
## Circuit Schematic

Block diagram

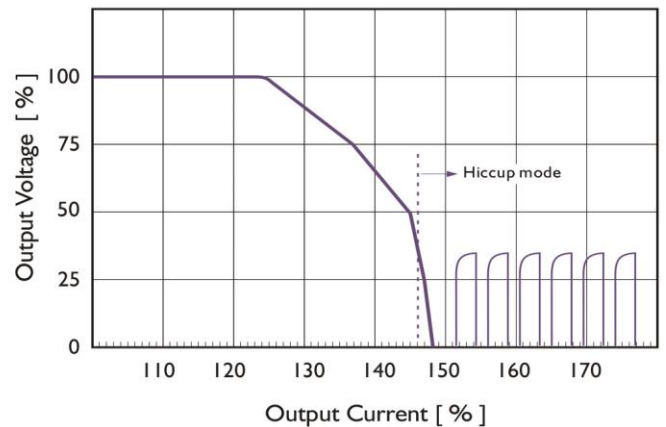


## Typ. Current Limited Curve

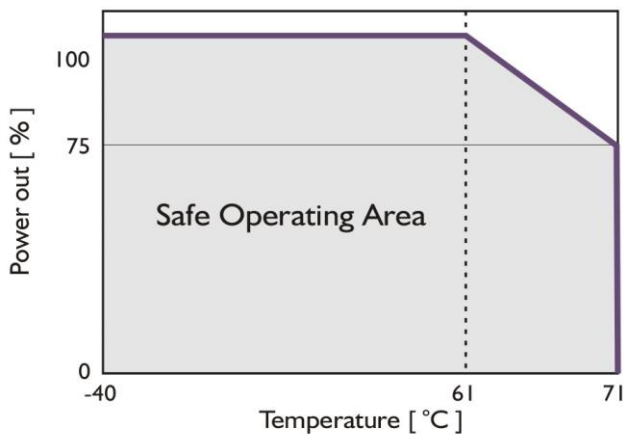
CF240-DD24 @550VDC



CF240-DD24 @700VDC



## Derating Curve



## Typ. Efficiency Curve

