



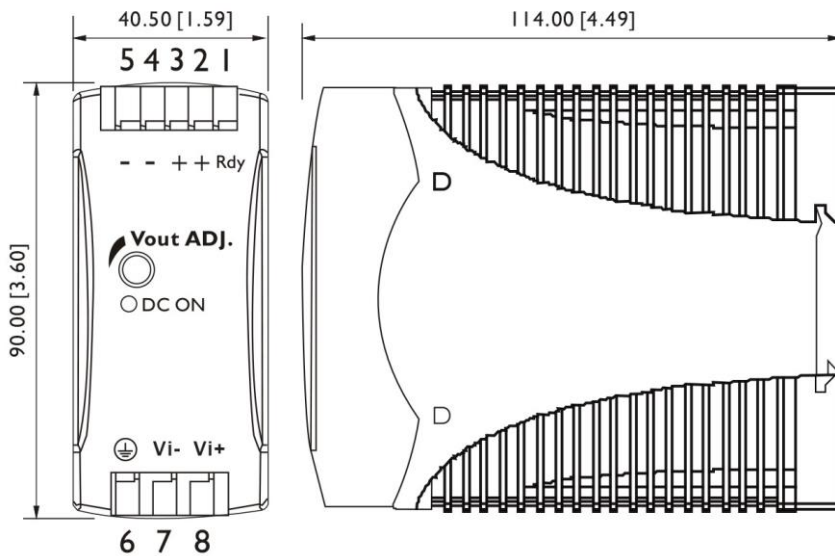
Features:

- High voltage input
- Reverse input protection
- Short circuit protection
- Internal input filter
- Over temperature protection

Specifications

Model	CF60-DD5	CF60-DD12	CF60-DD24	CF60-DD48	
Output	DC voltage	5V	12V	24V	48V
	Rated current	10 A @ 5Vdc 9 A @ 5.5 Vdc	5 A @ 12Vdc 4.25 A @ 14 Vdc	2.5 A @ 24Vdc 2.1 A @ 28 Vdc	1.25 A @ 48Vdc 1.08 A @ 55 Vdc
	Rated power	60W	60W	60W	60W
	Voltage adj. Range	5 – 5.5VDC	12 – 14VDC	24 - 28VDC	48 – 55VDC
	DC ON indicator threshold At start up (Green LED)	3.5 – 4.5V	9 – 10.8V	18 – 21.6V	37 – 43V
	Line regulation	±0.5%			
	Ripple + noise max.	50mVp-p			
	Load regulation	±0.5%			
Setup – rise time	1000ms - 150ms				
Input	Voltage range	90 – 375VDC			
	Efficiency (typ.)	Min 77%, typ 79%	Min 84%, typ 86%	Min 86%, typ 89%	Min 86%, typ 89%
	DC current (typ.)	1060mA @160Vdc 590mA @330Vdc			
	Inrush current	Max 40A			
Protection	Overload	110-150% rated output power			
	Over voltage	6 – 6.8	15 – 16.5V	30 – 33V	60 – 66V
	Output short circuit	Auto Recovery Fold forward			
Environment	Working temp.	-40 - +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			
	Vibration	meet IEC 60068-2-6 (Mounting on rail : 10-500 Hz, 2G, along X, Y,Z each Axis, 60 min for each Axis)			
	Shock	meet IEC 60068-2-27 (15G, 11ms, 3 Axis, 6 Faces, 3 times for each Face)			
Safety and EMC	Safety standards	UL 508 Listed UL 60950-1, UL 1310 Class 2 Power (only 5V, 12V w/o Class 2) Recognized ISA 12.12.01(Class I, Division 2, Groups A, B, C and D) EN 60950-1, CB scheme 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			
		MTBF (Bellcore Issue 6 @40°C GB)	498k hrs min.	504k hrs min.	520k hrs min.
Others	Dimension	90 x 40.5 x 114 mm (3.6 x 1.59 x 4.49 inches)			

Mechanism & Pin Configuration



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
 Spring terminal:
 AWG24-14 (0.2~2mm²) flexible / solid cable,
 10 m/m stripping at cable end recommends
 Use copper conductors only, 60 / 75°C

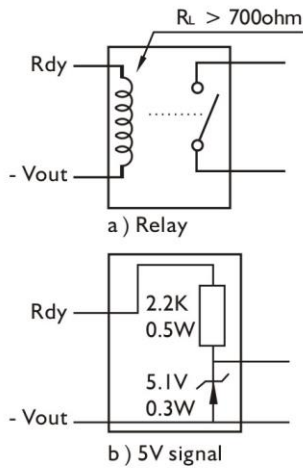
GENERAL TOLERANCE	
0.00[0.00] - 30.00[1.18]	±0.30[0.01]
30.00[1.18] - 120.00[4.72]	±0.50[0.02]

Pin no	Designation	Description
1	Rdy	A normal open relay contact for DC ON level control. 24V model only
2, 3	V+	Positive output terminal
4, 5	V-	Negative output terminal
7	PE	Ground this terminal to minimize high-frequency emissions
8	Vi-	Negative input terminal
9	Vi+	Positive input terminal

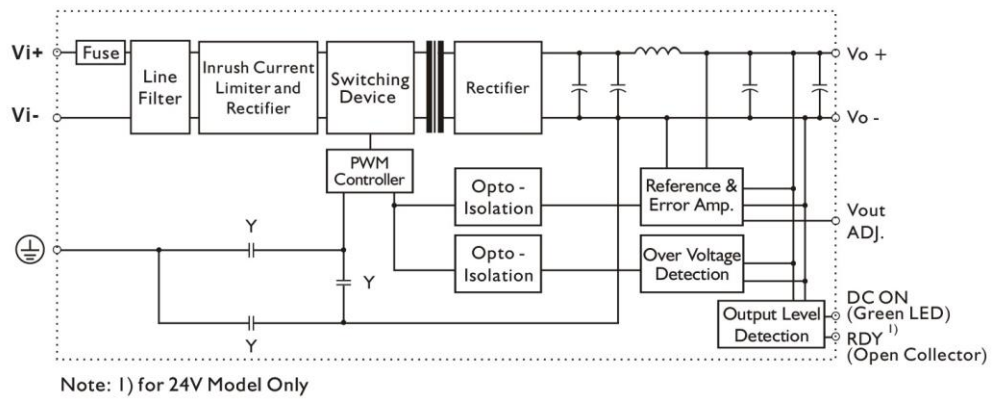
Designation	Description
Vout ADJ.	Trimmer-potentiometer for Vout adjustment
DC ON	Operation indicator LED

Circuit Schematic

Rdy Connection

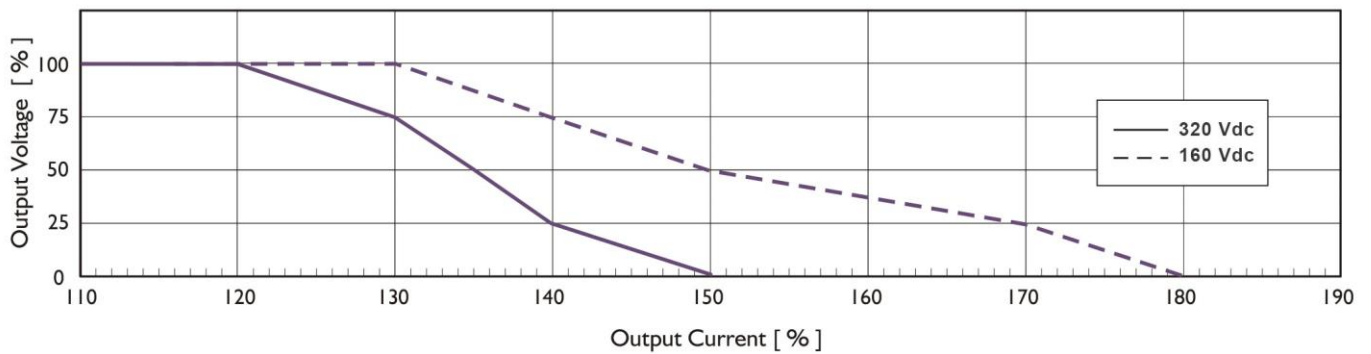


Block diagram

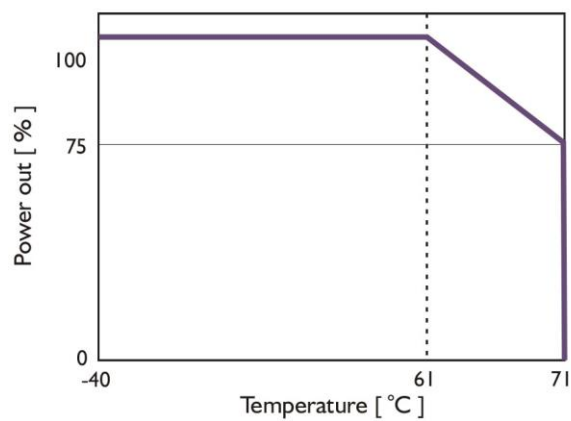


Typ. Current Limited Curve

CF60-DD24



Derating Curve



Typ. Efficiency Curve

CF60-DD24

