COTEK 60W Miniature Single Output Power Supply DN-60 series

Features :

- Universal AC input 88 - 264Vac
- Installed on DIN rail TS35 / 7.5 or 15
- Brown-out protection
- Protections: Short circuit / Over load / Over voltage
- All using 105°C long life electrolytic capacitors
- High operation temperature up to 70°C
- True DC OK signal output
- Withstand 2G vibration test
- High efficiency, long life and high reliability
- 3 years warranty
- UL508 (Industrial control equipment) listed
- UL1310 Class 2 Power unit / LPS pass

MODEL		DN-60-12	DN-60-15	DN-60-24	DN-60-48
Output	DC Voltage Range	12V	15V	24V	48V
	Rated Current	5A	4A	2.5A	1.25A
	Current Range	0 ~ 5A	0 ~ 4A	0 ~ 2.5A	0 ~ 1.25A
	Rated Power	60W	60W	60W	60W
	Ripple & Noise (max.) Note.2	100 mVp-p	100 mVp-p	120 mVp-p	180 mVp-p
	Voltage Adj. Range	10.8 ~ 13.2V	13.5 ~ 16.5V	21.6 ~ 26.4V	43.2 ~ 52.8V
	Voltage Tolerance Note.3	±1%	±1%	±1%	±1%
	Line Regulation	±1%	±1%	±1%	±1%
	Load Regulation	±1%	±1%	±1%	±1%
	Setup, Rise Time	<800ms, <50ms/230Vac at full load			
	Hold Up Time (Typ.)	> 32ms / 230VAC, >16ms / 115VAC at full load			
Input	Voltage Range Note.4	88 ~ 264VAC 124 ~ 370VDC			
	Frequency Range	47Hz ~ 63Hz			
	Efficiency (Typ.)	86%	87%	87%	88%
	AC Current (Typ.)	1.3 A / 115VAC 0.6A / 230VAC			
	Inrush Current (Typ.)	COLD START 30A / 115VAC 60A / 230VAC			
	Leakage Current	< 1mA / 230VAC			
Protection	Over Load	> 102 % rated output power			
		Protection type : constant current limiting, automatically after fault condition is removed			
	Over Voltage	115% ~ 150% rated output voltage			
		Protection type : latch-off mode			
Environment	Working Temp.	-20°C ~ +70°C (Refer to output load de-rating curve)			
	Working Humidity	20 ~ 90% R.H non-condensing			
	Storage Temp., Humidity	-40 ~ +85°C 10 ~95% R.H			
	Temp.Coefficient	±0.03%/°C (0 ~ 50°C)			
	Vibration	10 ~ 500Hz, 2G 10min./1 cycle, period for 60 min. Each along X,Y,Z axes			
Safety & EMC Note.5	Safety Standards	UL508, TUV EN60950-1 : 2006+A11, UL1310 NEC class 2 compliant			
	Withstand Voltage	I/P - O/P : 4242 DC I/P - FG : 2121 DC 1 minute			
	Isolation Resistance	I/P - O/P, I/P - FG, O/P - FG: 100M Ω / 500VDC			
	EMI Conduction & Radiation	EN55022 : 2006 Class B			
	Harmonic Current	EN61000-3-2: 2006 Class A, EN61000-3-3: 1995+A1: 2001+A2: 2005			
	EMS Immunity	EN61204-3: 2000, EN55024:1998+A1: 2001+A2: 2003 light industry level, criteria A			
Others	DC OK signal	Relay contact (24VDC / 1A , 120VAC / 1A)			
	Connection	I/P 3 poles, O/P : 6 poles screw DIN terminal			
	MTBF(MIL-HDBK-217F)	944.6K HRS			
	Cooling	Free Air convection			
	Dimension (W*H*D)(mm)	40x90x99			
	Packing	0.3kg ; 27Pcs / 9.3kg			
Note	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47 uf parallel capacitor. 3. Tolerance: includes set up tolerance, line regulation and load regulation. 4. De-rating may be needed under low input voltages. Please check the de-rating curve for more details. 5. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.				

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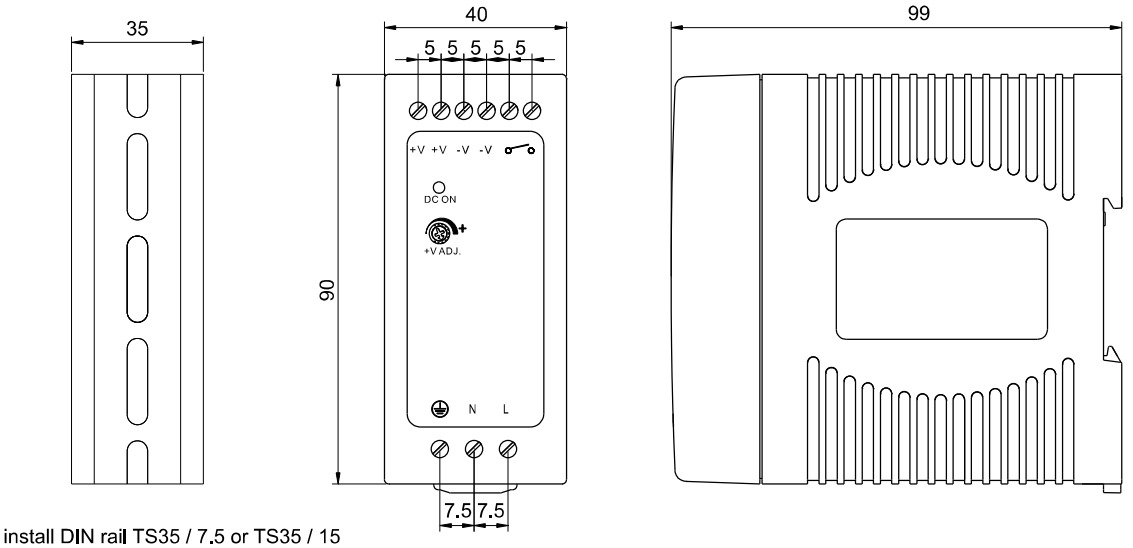
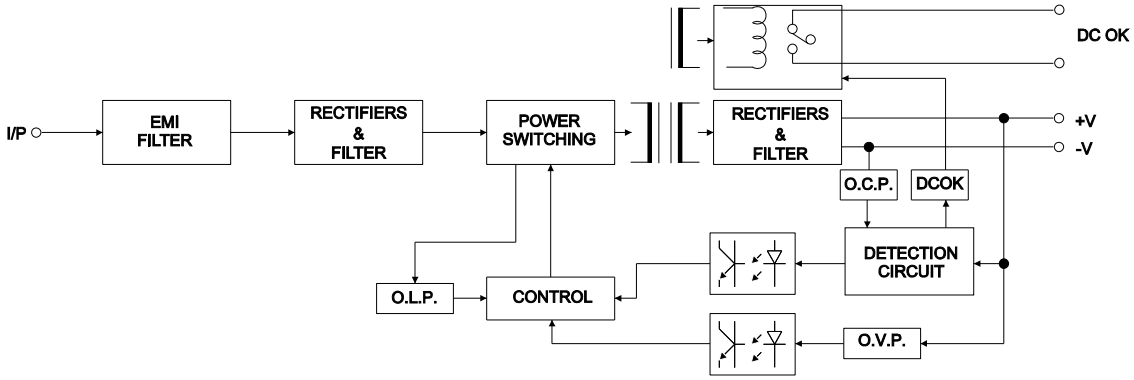
Mechanical Specification

Unit : mm



install DIN rail TS35 / 7.5 or TS35 / 15

Block Diagram

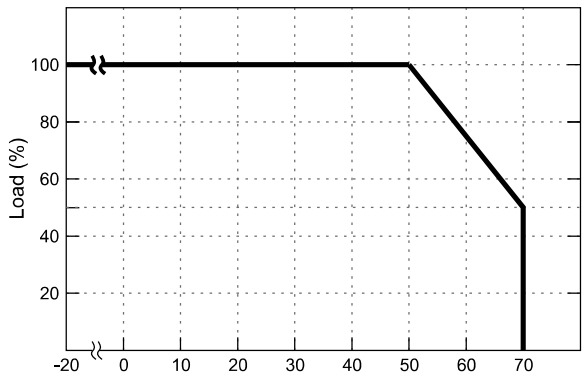


DC OK Relay Contact

Contact Close	When the output voltage reaches the adjusted output voltage
Contact Open	When the output voltage drop below 90% output voltage
Contact Ratings (max.)	30V / 1A resistive load

De-rating Curve

Load V.S Temp.



Load V.S I/P Voltage