

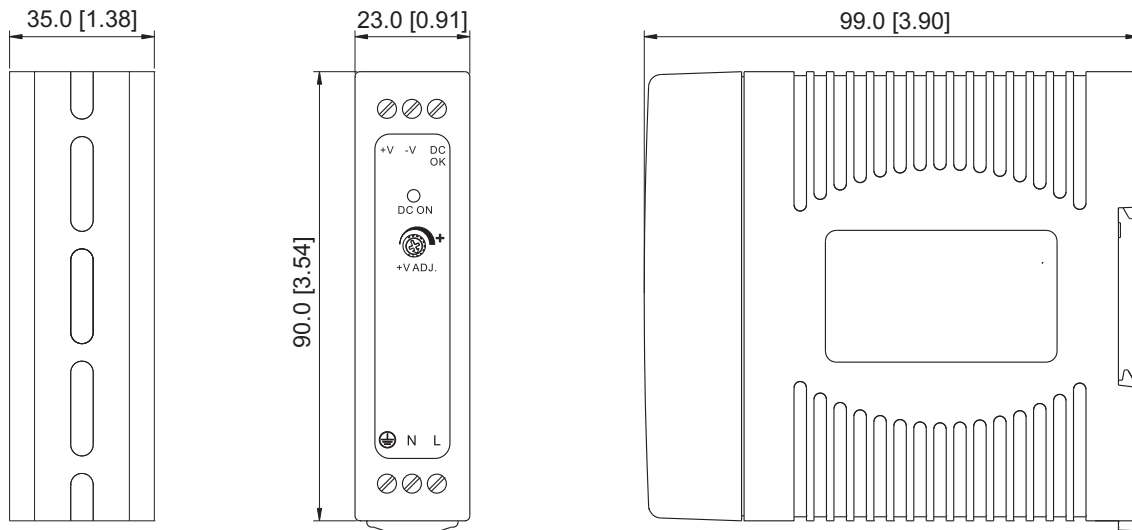
Features:

- Universal AC input / Full range
- Installed on DIN rail TS-35 / 7.5 or 15
- Brown-out protection
- Protection: SCP, OLP, OVP
- High operation temperature up to 70°C
- True DC OK signal output
- Withstand 2G vibration test
- UL 508 (Industrial control equipment) listed
- UL 1310 Class 2 Power unit / LPS pass



MODEL		DN-20-12		DN-20-15		DN-20-24	
Output	DC Voltage Range	12V		15V		24V	
	Rated Current	1.7A		1.4A		1A	
	Current Range	0 ~ 1.7A		0 ~ 1.4A		0 ~ 1A	
	Rated Power	20.4W		21W		24W	
	Ripple & Noise (Max.) Note.2	100mVp-p		100mVp-p		120mVp-p	
	Voltage Adj. Range	10.8 ~ 13.2V		13.5 ~ 16.5V		21.6 ~ 26.4V	
	Voltage Tolerance Note.3	±1%		±1%		±1%	
	Line Regulation	±1%		±1%		±1%	
	Load Regulation	±1%		±1%		±1%	
	Setup, Rise Time	< 800ms, < 100ms / 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	47 ~ 63Hz					
	Efficiency (Typ.)	83%		85%		86%	
	AC Current (Typ.)	0.45 A / 115VAC, 0.32A / 230VAC					
	Inrush Current (Typ.)	20A / 115VAC, 40A / 230VAC					
	Leakage Current	< 1mA / 230VAC					
Protection	Over Load	> 105% rated output power Protection type: constant current limit, recovers automatically after fault condition is removed					
	Over Voltage	115 ~ 150% rated output voltage Protection type: latch-off mode					
Environment	Working Temp.	-20 ~ +70°C (Refer to de-rating curve)					
	Working Humidity	20 ~ 90% RH non-condensing					
	Storage Temp. & Humidity	-40 ~ +85°C, 10 ~ 95% RH					
	Temp. Coefficient	±0.03% / °C (0 ~ 50°C)					
	Vibration	10 ~ 500Hz, 2G 10min. / 1cycle, period for 60min. Each along X, Y, Z axes					
Safety & EMC	Safety Standards	Certified UL 508; EN 60950-1; UL 1310 Class 2 Power Supply					
	Withstand Voltage	I/P-O/P: 3KVAC (4242VDC), I/P-FG: 1.5KVAC (2121VDC), O/P-FG: 0.5KVAC (707VDC)					
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG: 100M Ohms / 500VDC					
	EMI Conduction & Radiation	Certified EN 55022; EN 61000-6-3					
	Power Harmonic & Voltage Fluctuation and Flicker	Certified EN 61000-3-2; EN 61000-3-3					
	Note.5	EMS Immunity	Certified EN 61204-3; EN 55024; EN 61000-6-1; IEC 61000-4-2, 3, 4, 5, 6, 8, 11				
Others	DC OK signal	Open collector Max. : 40mA					
	Connection	I/P: 3 poles, O/P: 3 poles screw terminal					
	MTBF	510K HRS Certified MIL-HDBK-217F					
	Cooling	Air convection					
	Dimension (WxHxD)	23.0x90.0x99.0 mm / 0.91x3.54x3.90 inch					
	Packing	0.16kg; 45pcs / 8.2kg / 0.6CUFT					
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 & 47uF parallel capacitor. 3. Tolerance: includes setup time tolerance, line regulation and load regulation. 4. De-rating may apply in low input voltage. 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.						

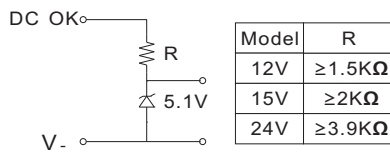
Mechanical Drawings:



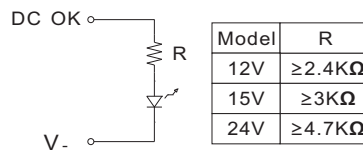
install DIN rail TS-35 / 7.5 or TS-35 / 15

Application of DC OK Active Signal:

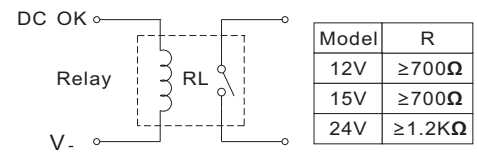
(a) 5V signal



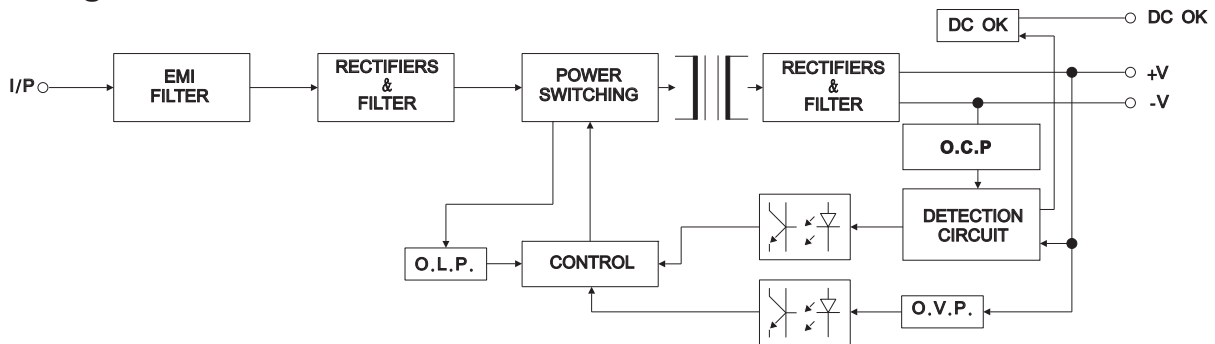
(b) LED



(c) Relay

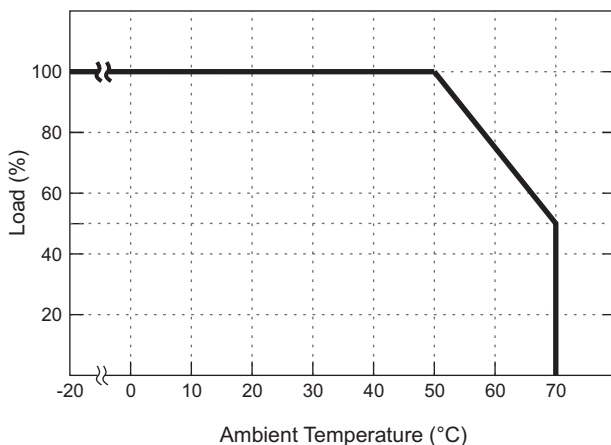


Block Diagram:



De-rating Curve:

Load V.S Temp.



Load V.S I/P Voltage

