

ANDR-120-24 SERIES 120W



Elcomtech's metal case powerfamily designed with slim housing and for full range AC input from 90 VAC to 264VAC.

The series are single phase psu, providing adjustable DC output voltage. They have high efficiency and operate in wide temperature range.

The series can widely used for industrial automation & control systems, varied equipments etc.

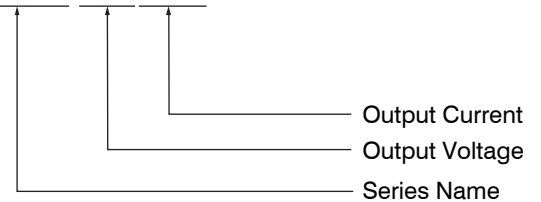


Features

- AC input with 90-264VAC
- No load power consumption <0.7W
- Isolation Class II
- Protections: Short circuit/Over load/Over voltage
- Cooling by free air convection
- Din rail TS-35/7.5 or 15 mountable
- 100% full load burn-in test
- Three years warranty

Model Description

ANDR-120-24-XXXXYYY



Model Information

Part number	DC Voltage	Rated Current(max.)	Rated Power	Current Range	Voltage ADJ. Range
ANDR-120-24	24V	5A	120W	0-5A	24.0-28.0V

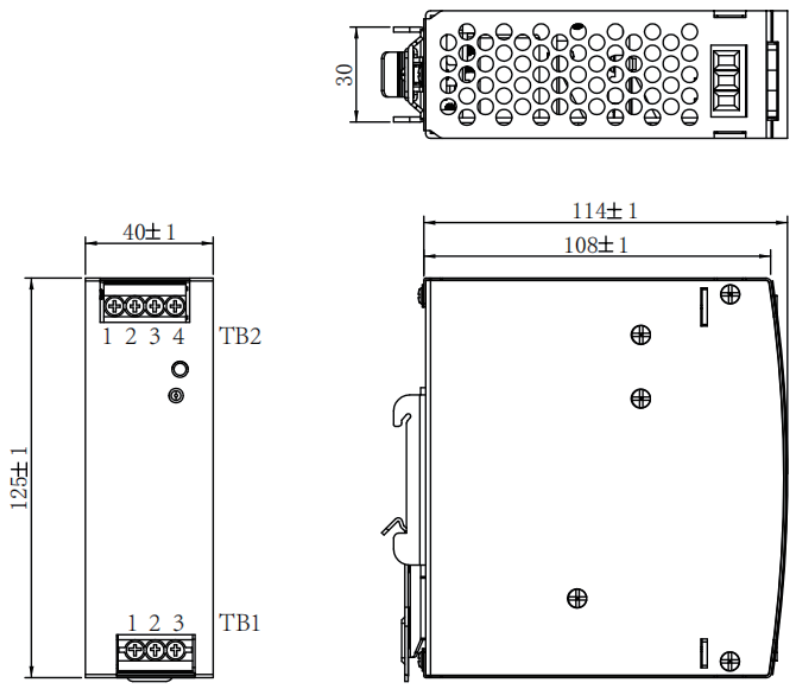
Specification

Model	Safety Model No.	ANDR-120-24			
Output	DC Voltage	24V			
	Rated Current	5A			
	Rated Power	120W			
	Ripple & Noise(max.)	120mVp-p			
	Voltage Tolerance	±2.0%			
	Line Regulation	±0.5%			
	Load Regulation	±1.0%			
	Voltage ADJ. Range	24~28V			
	Setup,Rise,Hold up Time	1.2s,60ms,16ms/230VAC(at full load)2.5s,60ms,10ms/115VAC(at full load)			
Input	Rated Voltage Range	100-240VAC			
	AC Voltage Range	90-264VAC/127-370VDC			
	Frequency Range	47-63Hz			
	AC Current	2.25A/115VAC1.3A/230VAC			
	Inrush Current	Cold Start 120A/200us at 230VAC 50HzCold Start 50A/200us at 115VAC 50Hz			
	Efficiency	88%			
Protection	Over Load	105 ~ 150% rated output power Hiccup mode, recovers automatically after fault condition is removed.			
	Reverse Over Voltage	24.5 ~ 25.5V Shut down o/p voltage, re-power to recover.			
	Short Circuit	Hiccup mode, recovers automatically after fault condition is removed.			
	Internal Fuse At L Pin	F5 A /250V			
	Over Voltage	29 ~ 33V Shut down o/p voltage, re-power to recover .			
	Ambient	Working TEMP.	-20 ~ +70 ℃ (Please refer to "Derating Curve"section)		
Start-up tested temp.		-30 ℃ (full load max.)			
Working Humidity		20 ~ 95%RH Non-condensing			
Storage TEMP. Humidity		-40 ~ +85 ℃,10 ~ 95%RH Non-condensing			
TEMP. Coefficient		±0.03%/(0 ~ 60 ℃) on load output			
Vibration		Component: 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6			
Operating Altitude		2000 meters			
Over Voltage Category		II; altitude up to 2000 meters			
Function	DC OK Relay Contact Ratings	60VDC/0.3A, 30VDC/1A, 30VAC/0.5A resistive load(max.)			
Safety	Safety Standards	UL508, BS/EN62368-1			
	Withstand Voltage	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC			
	Isolation Resistance	I/P-O/P:100M Ohms / 500VDC / 25 ℃ / 70% RH			
EMC	EMC Emission	Parameter	Standard	Test Level	
		Conducted	BS EN/EN55032(CISPR32)	CLASS B	
		Radiated	BS EN/EN55032(CISPR32)	CLASS B	
		Harmonic Current	EN61000-3-2	CLASS A	
		Voltage flicker	EN61000-3-3		
	EMC Immunity	BS EN/EN55035, BS EN/EN61000-6-2, BS EN/EN61204-3			
		Parameter	Standard	Test Level	
		ESD	EN61000-4-2	Level 3, 8KV air,Level 2, 4KV contact criteria A	
		Radiated Susceptibility	EN61000-4-3	Level 3, criteria A	
		EFT/Burest	EN61000-4-4	Level 3, criteria A	
		Surge	EN61000-4-5	Level 4, 2KV/L-N, criteria A	
		Conducted	EN61000-4-6	Level 3, criteria A	
		Magnetic Field	EN61000-4-8	Level 4, criteria A	
Voltage Dips and interruptions	EN61000-4-11	>95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods			
Others	Packing	610g/pcs; 31.5 x 30 x 30 cm; 20pcs/carton			
	Dimension (LxWxH)	125 x 40 x 114 mm			
	MTBF	453.3Khrs min. MIL-HDBK-217F(25 ℃)			
	Housing material	Aluminium / steel			
Note	1.Derating may be needed under low input voltage .Please check the derating curve for more details. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF and 47uF parallel capacitor. 3.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. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies". 4. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25 ℃ of ambient temperature. 5.The ambient temperature derating of 3.5 ℃/1000m with fanless models and of 5 ℃/1000m with fan models for operating altitude higher than 2000m(6500ft).				

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Drawing & Label

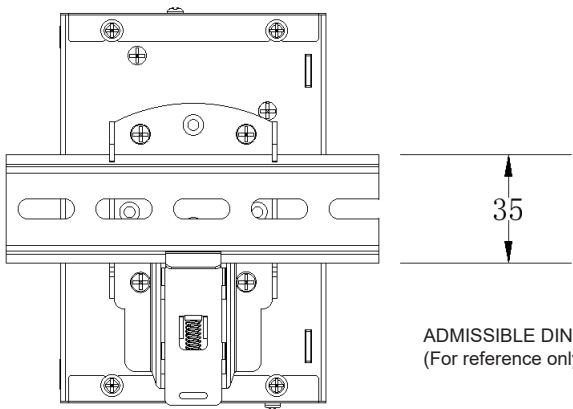
(Unit: mm , tolerance: ± 1 mm)



Terminal Pin No Assignmnet (TB1)	
Pin No.	Assignment
1	FG
2	AC/N or DC-
3	AC/L or DC+

Terminal Pin No Assignmnet (TB2)	
Pin No.	Assignment
1,2	DC OUTPUT -V
3,4	DC OUTPUT +V

Installation Instruction

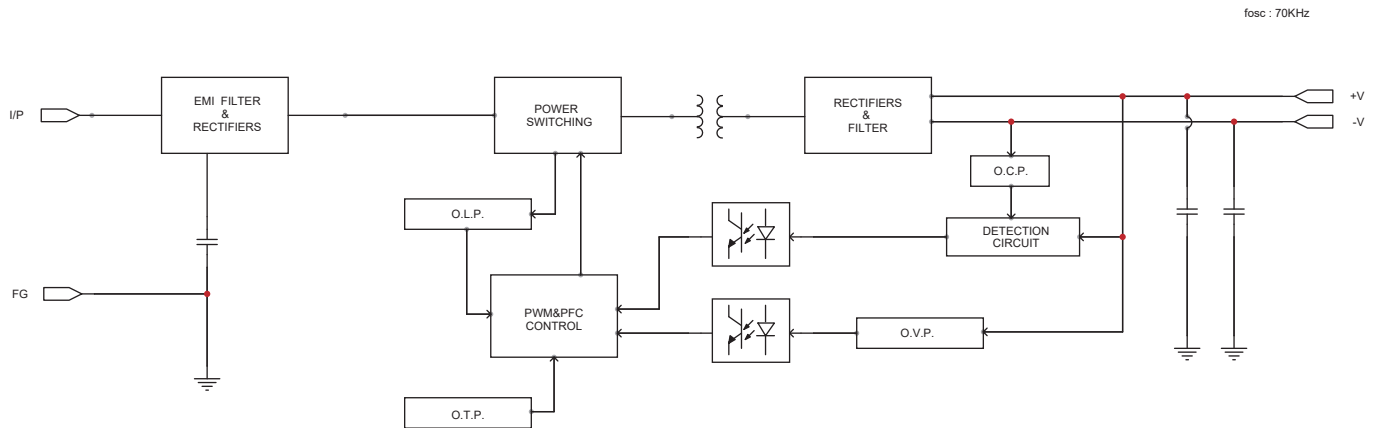


ADMISSIBLE DIN-RAIL: TS35/7.5 OR TS35/15
(For reference only. Not included with unit.)

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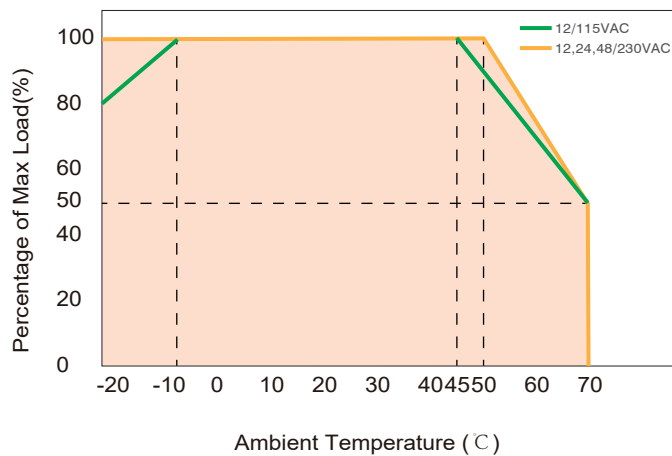
120W

Block Diagram



Engineering Data

Derating Curve



Static Characteristics

