

360Watts Single Output Industrial DIN Rail Power Supply

IT-DIN-360 Series



FEATURES

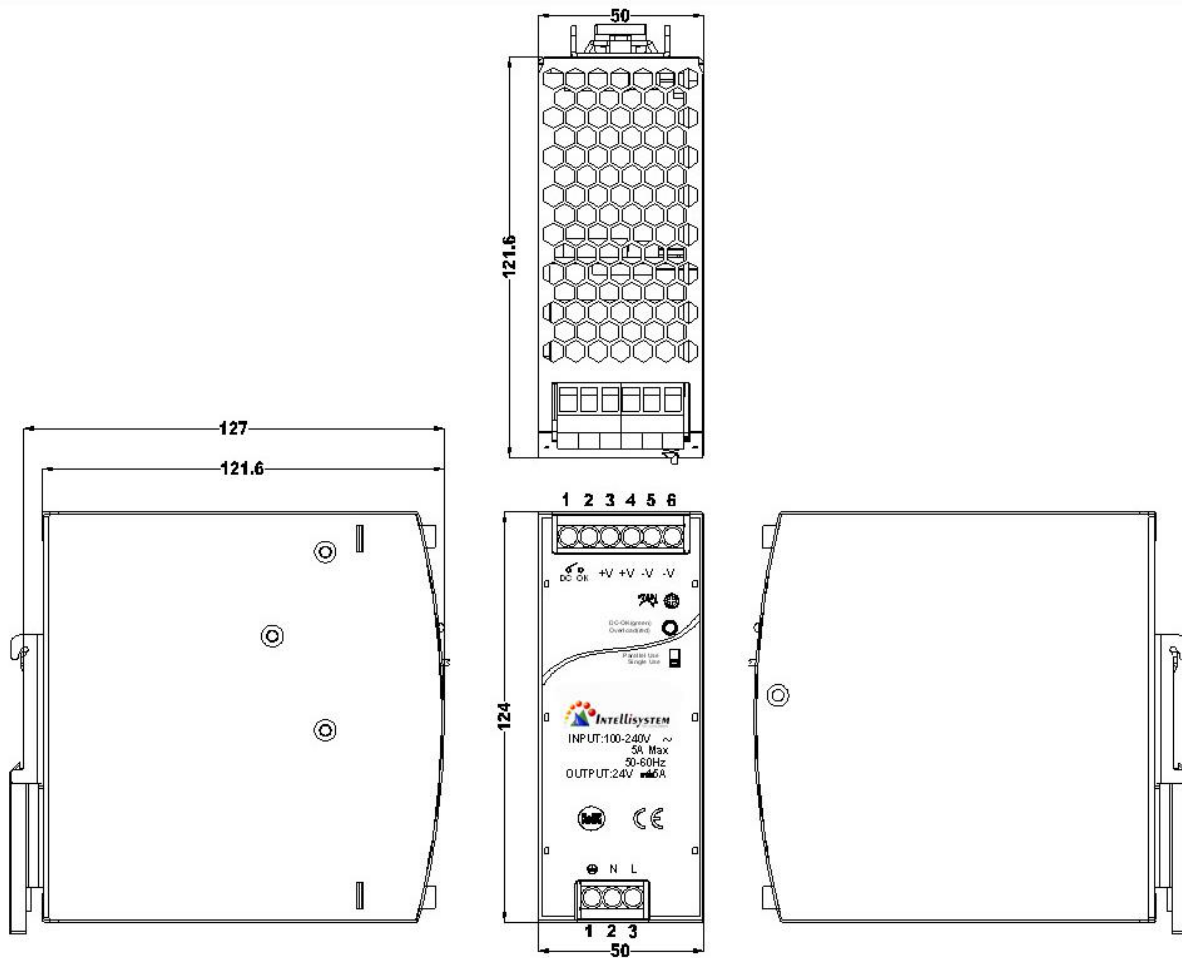
- Y Universal AC input range (85~264Vac)
- Y Support 1+1 or N+1 redundant system (suggest to use redundancy modules.)
- Y Built-in active PFC, PF>0.95
- Y High efficiency up to 93%
- Y Built-in current sharing function
- Y Built-in current limiting circuit
- Y Output protections: OVP/OLP/SCP/OTP
- Y Wide operating ambient temp (-25°C~70°C)
- Y 150 % (540W) peak load capacity
- Y Excellent Partial Load Efficiency
- Y Built-in DC OK relay contact
- Y Can be installed on TS-35/7.5 or TS-35/15
- Y 100% full load burn-in test
- Y Suitable for critical applications
- Y Ultra-slim, 50mm width
- Y Free air convection
- Y 3 years warranty

SPECIFICATION

MODEL		IT-DIN-360-24	IT-DIN-360-36	IT-DIN-360-48
OUTPUT	DC Output	24V	36V	48V
	Rated Current	15A	10A	7.5A
	Current Range Note 1	0~15A	0~10A	0~7.5A
	Ripple and Noise	0~70°C	≤240mV	≤240mV
		-25°C	≤480mV	≤480mV
	Voltage ADJ. Range	24~28V	34~37.5V	48~56V
	Voltage Accuracy	±3.0%		
	Line Regulation	±0.5%		
	Load Regulation	±1.0%		
	Set-up Time	<3S@230Vac		
	Hold up Time	≥20mS(230Vac input, Full load)		
	Temperature Coefficient	±0.03%/°C		
	Overshoot and Undershoot	<5.0%		
INPUT	Voltage Range	85Vac~264Vac		
	Frequency Range	47Hz~63Hz		
	Power Factor (typical)	0.99/110Vac 0.95/230Vac full load		
	Efficiency (Typical) at 230Vac	≥93%	≥92.5%	≥92.5%
	AC Current (max.)	<5A/100Vac <2.5A/230Vac		
	Inrush Current (Typical)	<20A/110Vac, <40A/230Vac Cold start		
	Leakage Current	Input—output:<0.25mA Input—PG:<3.5mA		
PROTECTION	Over Load	110%~150% of rated current, Constant current limiting for some time(150% of rated current, last 3S) then PS		
	Over voltage	29~33V, constant voltage, Auto recovery	39~43V, constant voltage Auto recovery	58~63V, constant voltage Auto recovery
	Over temperature	115±5°C, detect on heat sink of power transistor; shut down O/P, auto recovery after temperature goes down.		
	Short Circuit	Long-term mode, auto recovery		
ENVIRONMENT	Operating amb. Temp. & Hum.	-25°C~70°C; 20%~90%RH No condensing		
	Storage Temp. & Hum.	-40°C~85°C; 5%~95%RH No condensing		
SAFETY & EMC Note 3	Safety Standards	meet UL508, UL60950, EN60950		
	Withstand Voltage	Primary-Secondary: 3.0KVac; ≤10mA .Primary-PG: 2.5KVac; ≤10mA. Secondary-PG: 0.5KVac≤20mA.		
	Isolation Resistance	≥100M ohms		
	EMC Emission	Compliance to EN55022, EN55024, FCC PART 15 Class B		
	Harmonic Current	Compliance to EN61000-3-2, CLASS A		
	EMC Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11; heavy industry level		
OTHERS	MTBF (MIL-HDBK-217F)	More than 300,000Hrs (25°C, Full load)		
	Dimension (W*H*D)	50*124*127mm		

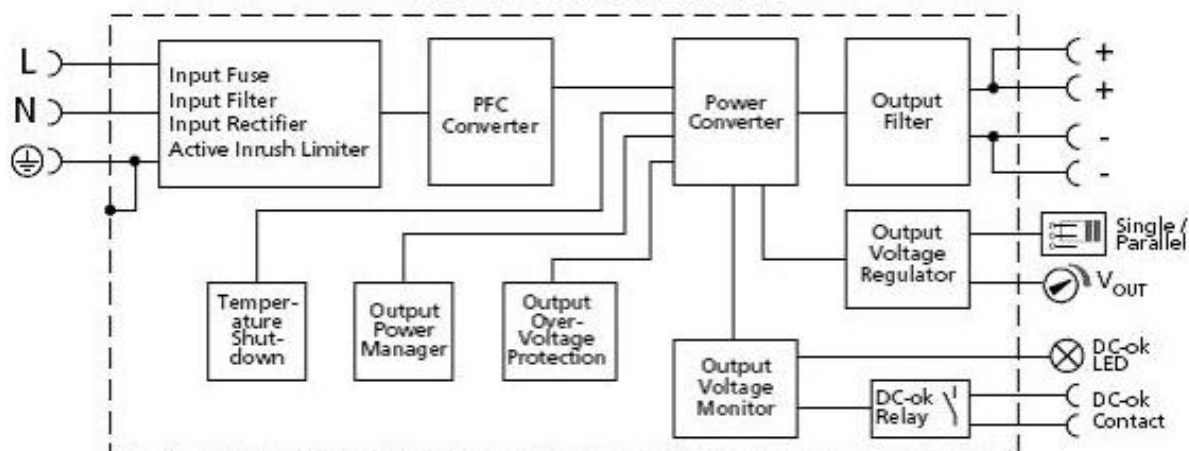
Mechanical Specification

Unit: mm



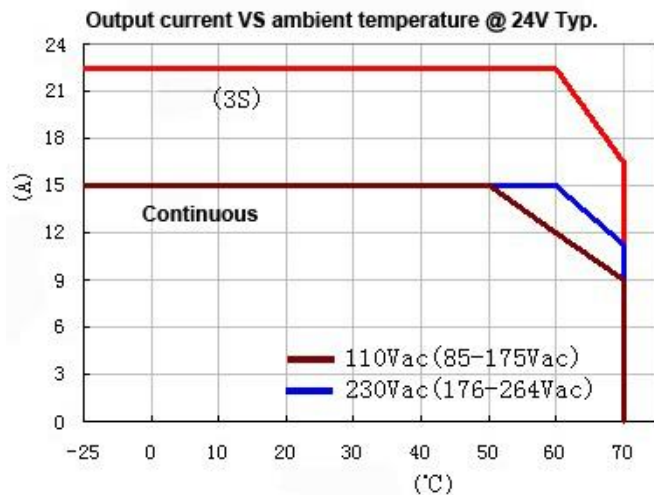
■ Block Diagram

Fig. 11-1 Functional diagram

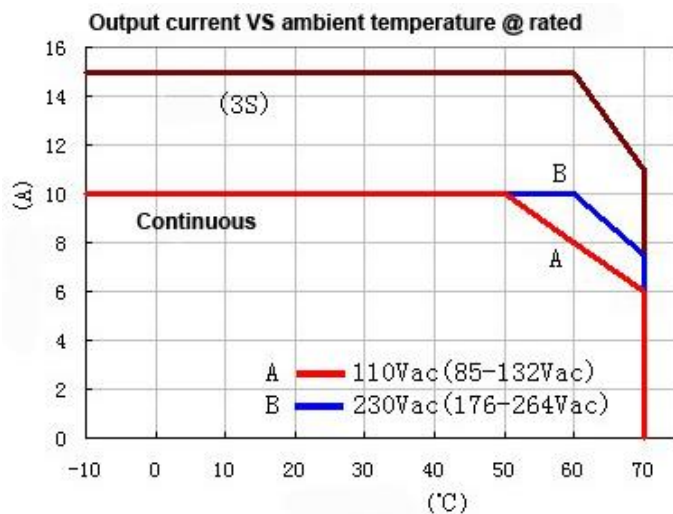


■ Derating Curve

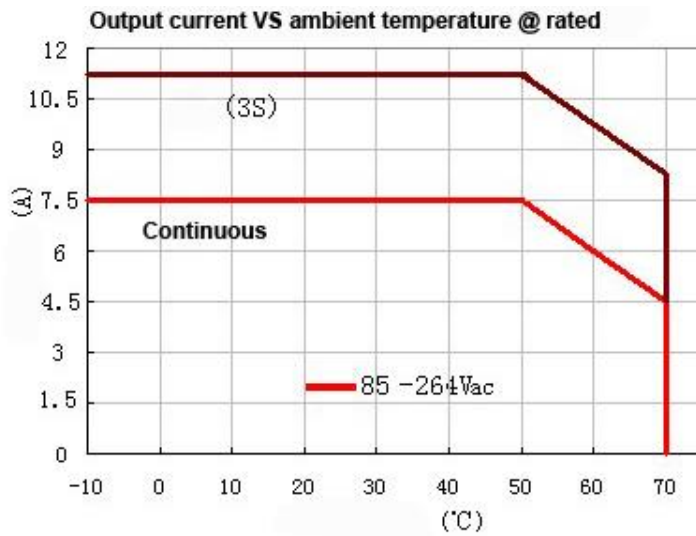
IT-DIN-360-24:



IT-DIN-360-36:



IT-DIN-360-36:



 short time working, 3S

 continuous working

Disclaimer

All products, product specifications and data are subject to change without notice.