### **DIN RAIL MOUNTING TYPE**



#### 5304x SERIES

**DATA SHEET** 



### **MAIN FEATURES:**

- 75W To 120W Small Compact Size
- . Built-in DC OK Relay Contact and LED **Indicator For Power On**
- Regulated Output Range: 5.0VDC-48VDC
- Input Range: 85VAC 265VAC/47 63Hz or 120VDC 375VDC
- Very Low Standby Power Consumption ≤0.75W
- High Energetic Efficiency: Meets the requirements of Energy Star and the EC Code of Conduct
- Safety: Meets IEC/EN61558-2-16,IEC/EN61558-1. IEC/EN62368-1, UL62368-1, CSA C22.2NO.62368-1-14, CE, **UKCA**
- EMC: Conducted and Radiated Emission conform to EN55032, FCC Part 15, CLASS B, EN/IEC61000-3-2 CLASS A EN61000-3-3
- Immunity conforms to EN61000-4-2, EN/IEC61000-4-3,E61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11









Part No.	Power Rating Watts	Output Voltage (VDC)	Rated Output Current (A)	Output Voltage Range- ADJ(Vdc)	Ambient Temp. (°C)	Efficiency Typical	Input Range
53041	75	5.0	15	4.75 ~ 5.50	-25°C ~ +70°C	82%@230VAC	
53042	100	9.0	11.1	8.55 ~ 9.45	-25°C ~ +70°C	82%@230VAC	
53043	120	12	10.0	10.80 ~ 13.20	-25°C ~ +70°C	85%@230VAC	85 ~ 265VAC
53044	120	15	8.0	13.50 ~ 16.50	-25°C ~ +70°C	85%@230VAC	(120-375VDC)
53045	120	24	5.0	21.60 ~ 26.40	-25°C ~ +70°C	88%@230VAC	
53046	120	36	3.33	34.20 ~ 37.80	-25°C ~ +70°C	88%@230VAC	
53047	120	48	2.5	45.60 ~ 50.40	-25°C ~ +70°C	88%@230VAC	

NOTE: Other output voltage are available upon request.

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5304x SERIES

**Power Supplies** 

304X GEITIEG		i ower supplies		
Model: 75W to 120 Watt		Specifications		
	Rated Input Voltage	100~240 VAC or 140VDC-340VDC		
	Input Voltage Range	85~265VAC or 120VDC-375VDC		
	AC Input Frequency Range	47Hz~63Hz		
AC Input Characteristics	Rated AC Input Frequency	50/60Hz		
Characteristics	Input Current	3.0A Max.		
	Input Inrush Current	60A Max. @265VAC input, cold start, full load		
	Standby Power	0.75W Max.		
	Leakage Current	<0.15mA/240VAC		
	Output Voltage Accuracy	±2% (Output Voltage ADJ Range See table)		
	Output Voltage Line Regulation	± 0.5%		
	Output Voltage Load Regulation	± 1%		
	Ripple & Noise	Max. 180mVp-p@ Rated AC input, at nominal line (The measuring will be terminated with a 47 $\mu$ F AL E-Cap and a 0.1 $\mu$ F Ceramic-Cap. An oscilloscope set at 20MHz bandwidth)		
DC Output	Dynamic Response	The output voltage shall not exceed $\pm$ 10% rated output voltage @ 50% ~ 90 % Load change, 1A/ $\mu$ S, 1KHz 50% duty cycle		
Characteristics	Hold Up Time	5mS min.@ 100 VAC~240VAC, DC output with full loa		
	Turn On Delay	3S max. @ 85VAC~265VAC input and DC output with full load		
	Rise Time	50ms max. @ 85VAC~265VAC input and DC output with full load		
	Overshoot	The output voltage shall not exceed +10% rated output voltage @ Power on and 85VAC~265VAC input, and DC with full load		
	Undershoot	The output voltage shall not exceed -10% rated output voltage @ Power off and 85VAC~265VAC input and DC output with full load		

### **DIN RAIL MOUNTING TYPE**



### **5304x SERIES**

### **Power Supplies**

	Efficiency	See table (Meets the requirements of Energy Star and the EC Code of Conduct)		
	Over Current Protection	120% ~ 180% rated output power,the power supply shall automatic protection. The power supply shall auto-recovery normal operations after the deformation is removed. No excessive heat, odour,no safety hazard		
Protection Characteristics	Output Short Circuit Protection	The power supply shall withstand a continuous output short without damage in 24 hours; The short may be applied before power on, or after power on; The power supply shall resume normal operation after the short is removed, no excessive heat, odour ,no safety hazard.		
	Output Over Voltage Protection	Protection type: shut down output voltage with autorecovery.		
DC OK FUNCTION	DC OK Signal	Relay contact rating(max.): 30V/1A resistive		
	Operation Temperature	-25°C~+70°C (Refer to« DERATING GRAPH »)		
	Operation Humidity	10~90% RH (No Condensing) @ full load		
Environmental	Storage Temperature	-40°C~ +85°C (Recommended +5°C~ +35°C)		
	Storage Humidity	5%~95% (Recommended <75%RH)		
	Cooling Method	Ordinary or thermostat		
	Dielectric Strength	Input to Output: 3750VAC 5mA, 3 sec.		
		Input to GND: 2000VAC 10mA, 3 sec.  Output to GND: 500VAC 10mA, 3 sec		
	Insulation Resistance	100MΩ max. @500Vdc/25°C /70%RH		
	Radiation	Meets EN55032, FCC part 15 Class B. under 3dB margin		
Safety & EMC	Conduction	Meets EN55032, FCC part 15 Class B. under 3dB margin		
Requirement	Harmonic Current Distance	Meets EN/IEC61000-3-2, Class A		
	Voltage Fluctuation and Flicker	Meets EN61000-3-3		
	Electrostatic Discharge	Meets EN61000-4-2 Contact Discharge <u>+</u> 6KV, Air Discharges <u>+</u> 8KV		
	RF Field Strength Susceptibility	Meets EN/IEC61000-4-3, 10V/m		
	Electrical Fast Transient	Meets EN61000-4-4, ± 4KV		

### **DIN RAIL MOUNTING TYPE**

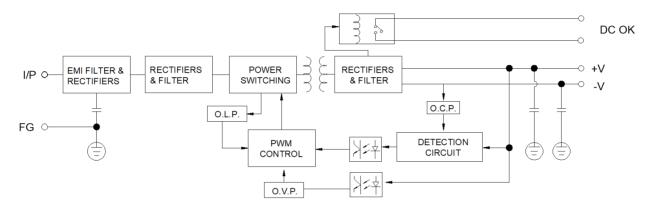


	Lightning Surge	Meets EN61000-4-5, ±4KV common mode,±2KV diff.mode		
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	Conducted Susceptibility	Meets EN61000-4-6, 10Vr.m.s		
Safety & EMC Requirements	Power Frequency Magnetic Field Susceptibility Test	Meeting EN61000-4-8, 30A/m		
	Voltage Dips and interruptions	Meets EN61000-4-11, 0%,70%		
	Safety Standards	Meets all requirements of : UL62368-1, CSA C22.2 NO.62368-1-14 IEC/EC62368-1 IEC/EN61558-2-16, IEC/EN61558-1 CE,UKCA		
Reliability	MTBF	>200K Hours @230VAC input at 50deg.C >450K Hours @230VAC input at 25deg.C Calculated in accordance with MIL-HDBK-217-F2		
Requirement	Burn-in-Test	The unit shall be burned in 2~5hours under 230VAC input and DC with full load at and ambient temperature of 30~45 degrees C		
Mechanical	Physical size	The units dimension is: (W)40*(H)125.4*(D)113.2mm (±1mm) (see appearance drawing)		
	Net Weight	Approximately 500 grams per product unit		
Guarantee	This product is in accordance with the European RoHS & REACH directives			

### **DIN RAIL MOUNTING TYPE**



#### **BLOCK DIAGRAM**

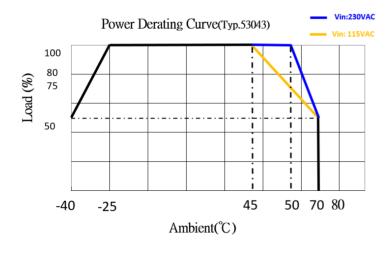


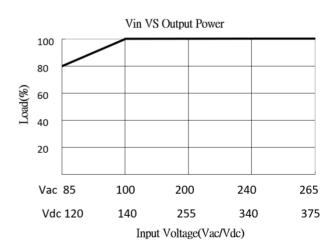
#### DC OK RELAY CONTACT

Contact Close: PSU Turns on/DC OK Contact Open: PSU Turns off/DC Fail

Contact Ratings(max.): 30V/1A resistive load

#### **DERATING GRAPH**

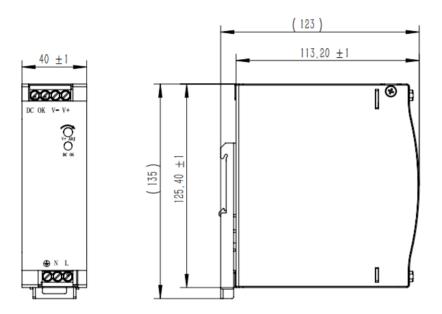


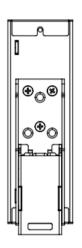


### **DIN RAIL MOUNTING TYPE**



#### **DIMENSIONS**

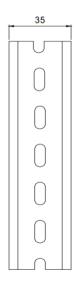




#### **INSTALLATION INSTRUCTION**







Admissible Din-Rail: TS35/7.5 or TS35/15, For reference only, not included with unit.