DIN RAIL MOUNTING TYPE



5300x SERIES

DATA SHEET



MAIN FEATURES:

- 12W To 24W Small Compact Size
- . Built-in DC OK Active Signal and LED **Indicator For Power On**
- Regulated Output Range: 3.3VDC-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
53000	12	3.3	3.64	3.135 ~ 3.465	-25°C ~ +70°C	72%@230VAC	
53001	20	5.0	4.0	4.75 ~ 5.50	-25°C ~ +70°C	75%@230VAC	
53002	24	9.0	2.7	8.55 ~ 9.45	-25°C ~ +70°C	80%@230VAC	
53003	24	12	2.0	10.80 ~ 13.20	-25°C ~ +70°C	80%@230VAC	85 ~ 265VAC (120-375VDC)
53004	24	15	1.6	13.50 ~ 16.50	-25°C ~ +70°C	80%@230VAC	
53005	24	24	1.0	21.60 ~ 26.40	-25°C ~ +70°C	81%@230VAC	
53006	24	36	0.7	34.20 ~ 37.80	-25°C ~ +70°C	82%@230VAC	
53007	24	48	0.5	45.60 ~ 50.40	-25°C ~ +70°C	82%@230VAC	

NOTE: Other output voltage are available upon request.

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Power Supplies

Model: 12W to 24 We	**	Specifications		
Model: 12W to 24 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	0.85A Max.		
	Input Inrush Current	45A Max. @265VAC input, cold start, full load		
	Standby Power	0.75W Max.		
	Leakage Current	<0.2mA/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. 150mVp-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/ μ S, 1KHz 50% duty cycle		
Characteristics	Hold Up Time	5mS min.@ 100 VAC~240VAC, DC output with full load		
	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% rate output voltage @ Power off and 85VAC~265VA input and DC output with full load		

DIN RAIL MOUNTING TYPE



5300x 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 and re-power on to recover.		
DC OK FUNCTION	DC OK Active Signal (max.)	50000: 2.475~3.96V/50mA; 50001: 3.75~6V/50mA; 50002: 6.75~10.8V/40mA; 50003: 9.0~13.5V/40mA; 50004: 11.5~16.5V/40mA; 50005: 18~27V/20mA; 50006: 27.0~43.9V/15mA; 50007: 36~54V/10mA		
	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, <u>+</u> 4KV		
		www.mvrra.com		

DIN RAIL MOUNTING TYPE

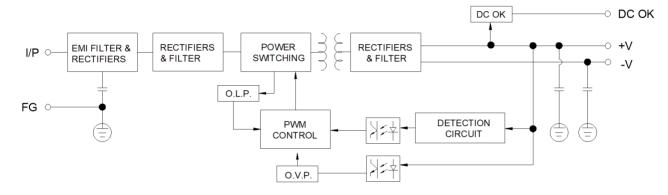


	Lightning Surge	Meets EN61000-4-5, ±4KV common mode,±2KV diff.mode		
	Conducted Susceptibility	Meets EN61000-4-6, 10Vr.m.s		
Safety & EMC Requirements	Power Frequency Magnetic Field Susceptibility Test	Meeting EN61000-4-8, 30A/m		
	Voltage Dips and interruptions	Meets EN61000-4-11, 0%,70%		
	Safety Standards	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)22.5*(H)90*(D)100mm (±1mm) (see appearance drawing)		
	Net Weight	Approximately 150 grams per product unit		
Guarantee	This product is in accordance with the European RoHS & REACH directives			

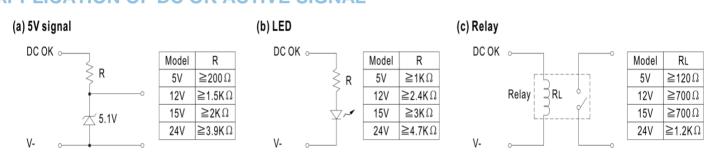
DIN RAIL MOUNTING TYPE



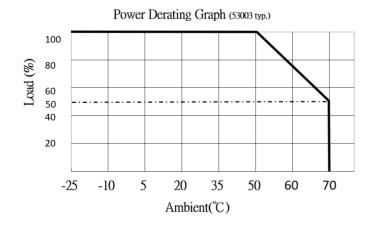
BLOCK DIAGRAM

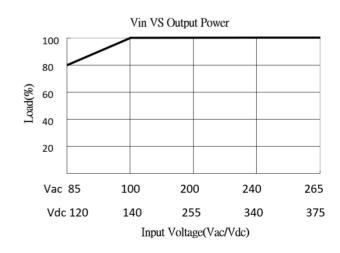


APPLICATION OF DC OK ACTIVE SIGNAL



DERATING GRAPH





Pease refer to MYRRA's website and catalogue for MYRRA SMPS application notes.

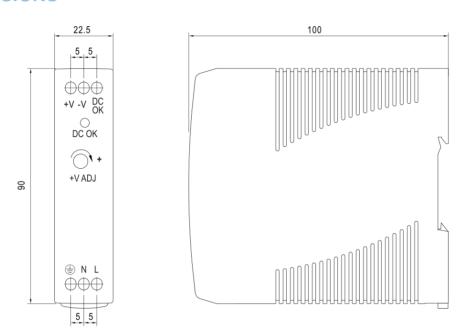
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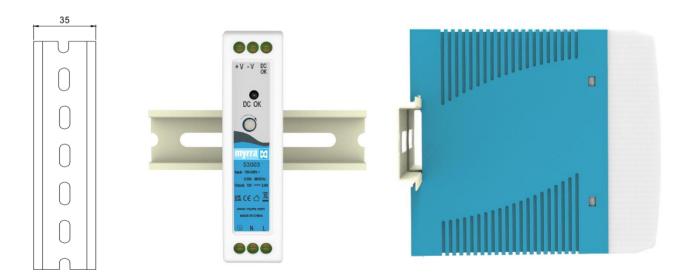
DIN RAIL MOUNTING TYPE



DIMENSIONS



INSTALLATION INSTRUCTION



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