

OPTONICA

100W ULTRA SLIM DIN RAIL POWER SUPPLY



Features

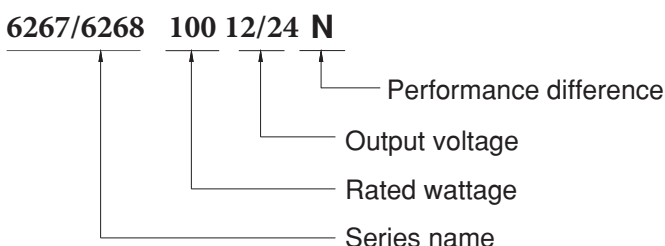
- Ultra slim design with 70mm (4SU) width
- Universal input 85-264VAC (277VAC operational)
- No load power consumption <0.3W
- Isolation class
- Pass LPS (Limited power source) for Blank type
- DC output voltage adjustable
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection (working temperature: -30 +70°C)
- DIN rail TS-35/7.5 or 15 mountable
- LED indicator for power on

Applications

- Household control system
- Building automation
- Industrial control system
- Factory automation
- Electro-mechanical apparatus

Description

6267/6268 is one economical ultra slim 100W DIN rail power supply series, adapt to be installed on TS-25/7.5 or TS-35/15 mounting rails. The body is designed 70mm (4SU) in width, which allows space saving inside the cabinets. The entire series adopts the full range AC input from 85 VAC to 264 VAC (277 VAC operational) and conforms to BS EN/EN61000-3-2, the norm the European Union regulates for harmonic current. 6267/6268 is designed with plastic housing that it can effectively prevent user from electric hazards. With working efficiency up to 90%, the entire series can operate at the ambient temperature between -30 +70°C under air convection. The complete protection functions and relevant certificates for home automations and industrial control apparatus (IEC62368-1, UL508, UL62368-1, BS EN/EN61558-2-16) make 6267/6268 avert competitive power supply solution for household and industrial applications.



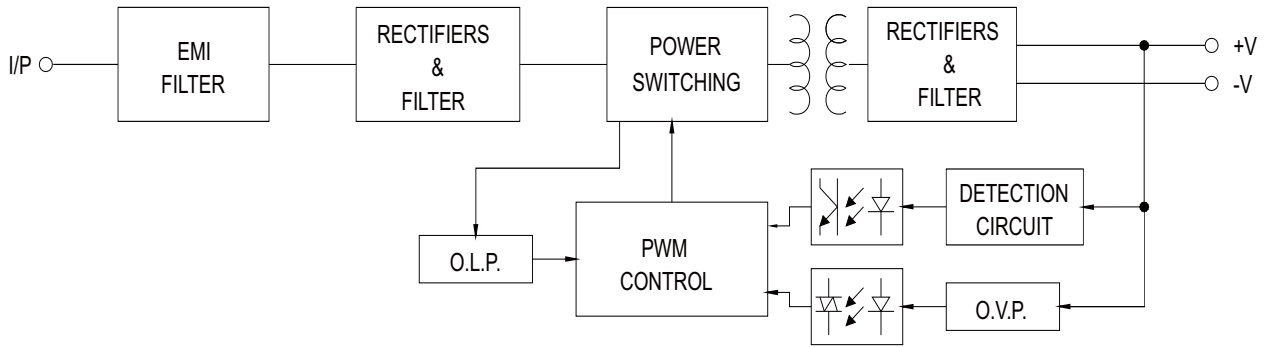
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SPECIFICATION

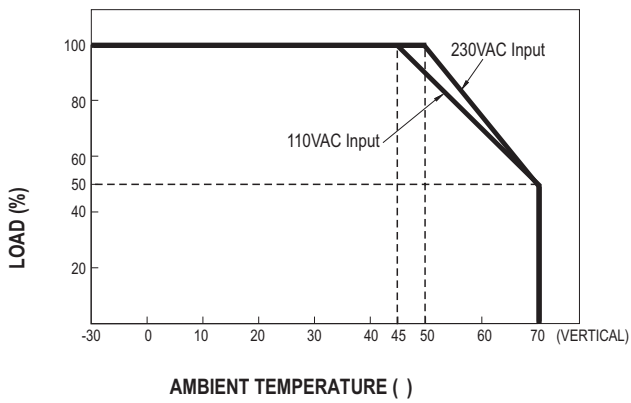
MODEL		6267-100-12	6268-100-24	
OUTPUT	DC VOLTAGE	12V	24V	
	RATED CURRENT	8.33A	4.16A	
	CURRENT RANGE	0 ~ 8.33A	0 ~ 4.16A	
	RATED POWER	100W	100W	
	RIPPLE & NOISE (max.) Note.2	120mVp-p	150mVp-p	
	VOLTAGE ADJ. RANGE	Pass LPS	12 ~ 13V	24 ~ 25.5V
		Non LPS	12~ 13.8V	21.6 ~ 29V
	VOLTAGE TOLERANCE Note.3	±2.0%	±1.0%	
	LINE REGULATION	±1.0%	±1.0%	
	LOAD REGULATION	±1.0%	±1.0%	
SETUP, RISE TIME	500ms, 60ms/230VAC 500ms, 60ms/115VAC at full load			
HOLD UP TIME (Typ.)	30ms/230VAC 12ms/115VAC at full load			
INPUT	VOLTAGE RANGE	85 ~ 264VAC (277VAC operational) 120 ~ 370VDC (390VDC operational)		
	FREQUENCY RANGE	47 ~ 63Hz		
	EFFICIENCY (Typ.)	88%	90%	
	AC CURRENT (Typ.)	3A/115VAC		
	INRUSH CURRENT (Typ.)	COLD START 35A/115VAC 70A/230VAC		
PROTECTION	OVERLOAD	6267/6268 : 102 ~ 110% rated output power ; 6267/6268 : 105 ~ 150% rated output power Hiccup mode when output voltage <50%, recovers automatically after fault condition is removed Constant current limiting within 50% ~100% rated output voltage, recovers automatically after fault condition is removed		
	OVER VOLTAGE	14.2 ~ 16.2V	30 ~ 36V	
		Protection type : Shut down o/p voltage, re-power on to recover		
ENVIRONMENT	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")		
	WORKING HUMIDITY	20 ~ 90% RH non-condensing		
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing		
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C) RH non-condensing		
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6		
	OPERATING ALTITUDE	2000 meters		
	OVER VOLTAGE CATEGORY	III ; According to EN61558, EN50178, EN60664-1, EN62477-1 ; altitude up to 2000 meters		
SAFETY & EMC (Note 5)	SAFETY STANDARDS	UL62368-1, UL508, TUV BS EN/EN61558-2-16, BS EN/EN61558-1, IEC62368-1, EAC TP TC 004, BSMI CNS15598-1 approved; Design refer to TUV BS EN/EN62368-1		
	WITHSTAND VOLTAGE	I/P-O/P:4KVAC		
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH		
	EMC EMISSION	Parameter	Standard	Test Level / Note
		Conducted	BS EN/EN55032(CISPR32), CNS15936	Class B
		Radiated	BS EN/EN55032(CISPR32), CNS15936	Class B
		Harmonic Current (Note 5)	BS EN/EN61000-3-2	Class A
	Voltage Flicker	BS EN/EN61000-3-3	-----	
	EMC IMMUNITY	BS EN/EN55035, BS EN/EN61000-6-2, BS EN/EN61204-3		
		Parameter	Standard	Test Level / Note
ESD		BS EN/EN61000-4-2	Level 3, 8KV air; Level 2, 4KV contact, criteria A	
Radiated Susceptibility		BS EN/EN61000-4-3	Level 3, criteria A	
EFT/Burest		BS EN/EN61000-4-4	Level 3, criteria A	
Surge		BS EN/EN61000-4-5	Level 4, 2KV/L-N, criteria A	
Conducted		BS EN/EN61000-4-6	Level 3, criteria A	
Magnetic Field		BS EN/EN61000-4-8	Level 4, criteria A	
Voltage Dips and interruptions	BS EN/EN61000-4-11	>95% dip 0. 5 periods, 30% dip 25 periods, >95% interruptions 250 periods		
OTHERS	MTBF	3271.9K hrs min. Telcordia SR-332 (Bellcore) ; 856.5K hrs min. MIL-HDBK-217F (25°C)		
	DIMENSION	70*90*54.5mm (W*H*D)		
	PACKING	0.27Kg; 48pcs/13.74Kg/0.96CUFT		
NOTE	<p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</p> <p>2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 F & 47 F parallel capacitor.</p> <p>3. Tolerance: includes set up tolerance, line regulation and load regulation.</p> <p>4. Harmonic current test at 90% load for 6267/6268.</p> <p>5. The power supply is considered as an independent unit, but the final equipment will need to re-confirm that the whole system complies with the EMC directives.</p> <p>6. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m (6500ft).</p>			

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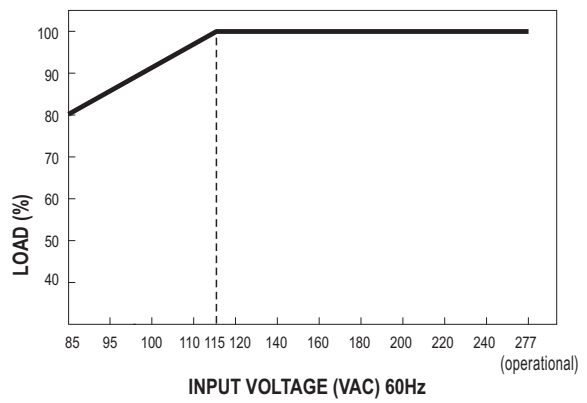
■ Block Diagram



■ Derating Curve VS Ambient Temperature



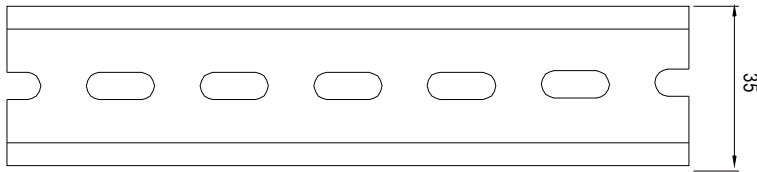
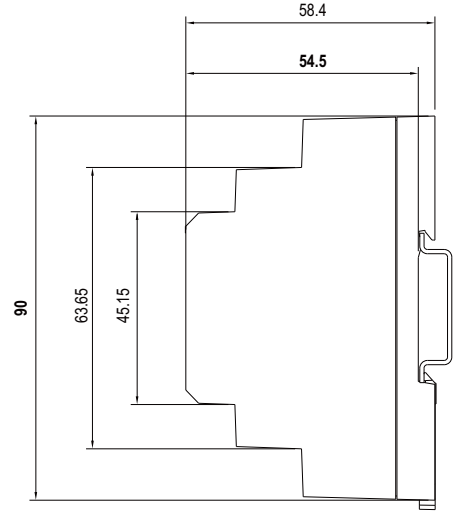
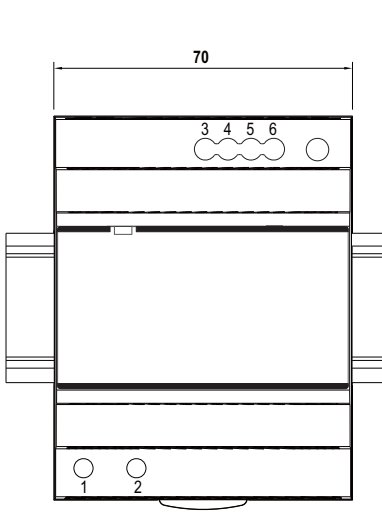
■ Output Derating VS Input Voltage



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■ Mechanical Specification

(Unit: mm , tolerance $\pm 0.5\text{mm}$)



ADMISSIBLE DIN-RAIL: TS35/7.5 OR TS35/15

Terminal Pin No. Assignment

Pin No.	Assignment	Pin No.	Assignment
1	AC/L	3,4	-V
2	AC/N	5,6	+V