OPTONICA

60W ULTRA SLIM DIN RAIL POWER SUPPLY

Features

- Ultra slim design with 52.5mm (3SU) width
- Universal input 85-264 VAC (277VAC operational)
- No load power consuptions <0.3W
- Isolation class II
- Pass LPS (Limited power source)
- DC output voltage adjustable
- Protections: Short circuit / Overload / Over voltage
- Cooliong by free air convection (working temperature: -30 +70°C)
- DIN rail TS-25/7.5 or 15 mountable
- LED indicator for power on

Applications

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

Description

6265/6266 is one economical ultra slim 60W DIN rail power supply series, adapt to be installed on TS-35/7.5 or TS-35/15 mounting rails. The body is designed 52.5mm (3SU) in width, which allows space saving inside the cabinets. The entire series adopt the fill range AC input from 85VAC to 264VAC (277 VAC operational) and conforms to BS EN/EN610000-3-2, the norm the European Union regulates for harmonic current. 6265/6266 is designed with plastic housing that it can effectively prevent user from electric hazards. With working efficiency up to 91%, the entire series can operate at the ambient temperature between -30 +70°C under air convections. The complete protection functions and- relevant certificates for home automations and industrial control apparatus (IES62368-1, UL508, UL62368-1, BS EN/EN-) make 6265/6266 a very competitive power supply solution for household and industrial applications.

6265/6266 60 12/24

- 12/24 — Output voltage
- 60 — Rated wattage
- 6265/6266 — Series name

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SPECIFICATION

MODEL			**6265**-60-12		**6266**-60-24	
OUTPUT	DC VOLTAGE		12V		24V	
	RATED CURRENT		5A		2.5A	
	CURRENT RANGE		0 ~ 5A		0 ~ 2.5A	
	RATED POWER		60W		60W	
	RIPPLE & NOISE (max.) Note.2		120mVp-p		150mVp-p	
	VOLTAGE ADJ. RANGE		10.8 ~ 13.8V		21.6 ~ 29V	
	VOLTAGE TOLERANCE Note.3		±1.0%		±1.0%	
	LINE REGULATION		±1.0%		±1.0%	
	LOAD REGULATION		±1.0%		±1.0%	
	SETUP, RISE TIME	500ms, 50ms/230VAC 500ms, 50ms/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.)	1.2A/115VAC 0.8A/230VAC				
	INRUSH CURRENT (Typ.)	COLD START 30A/115VAC 60A/230VAC				
PROTECTION	OVERLOAD	105 ~ 160% 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	5.75 ~ 6.75V	14.2 ~ 16.2V	18.8 ~ 22.5V	30 ~ 36V	56.5 ~ 64.8V
		Protection type : Shut down o/p voltage, re-power on to recover				
ENVIRONMENT	WORKING TEMP.	-30 ~ +70℃ (Refer to "Derating Curve")				
	WORKING HUMIDITY	20 ~ 90% RH non-condensing				
	STORAGE TEMP., HUMIDITY	-40 ~ +85℃, 10 ~ 95% RH non-condensing				
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 50℃) 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 4)	SAFETY STANDARDS	UL62368-1, UL508, TUV BS EN/EN61558-2-16, BS EN/EN61558-1, IEC62368-1, EAC TP TC 004, BSMI CNS15598-1, IS13252(Part1)/IEC60950-1 approved; Design refer to BS EN/EN62368-1				
	WITHSTAND VOLTAGE	I/P-O/P:4KVAC				
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25℃/ 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	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	3524.8K hrs min. Telcordia SR-332 (Bellcore) ; 927.6K hrs min. MIL-HDBK-217F (25℃)				
	DIMENSION	52.5*90*54.5mm (W*H*D)				
	PACKING	190g;60pcs/13Kg/0.91CUFT				
NOTE	1. All parameters NOT specially mentioned are measured at 240VAC input, rated load and 25°C of ambient temperature. 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. 3. Tolerance: includes set up tolerance, line regulation and load regulation. 4. The power supply is considered a component which will be installed into a final equipment. The final wquipment must be re-confirmed that it still meets EMC directives. 5. 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).					

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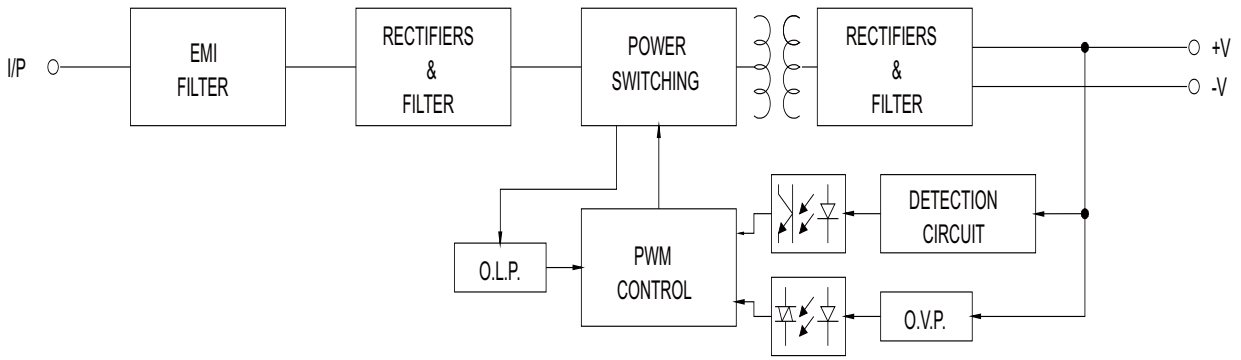
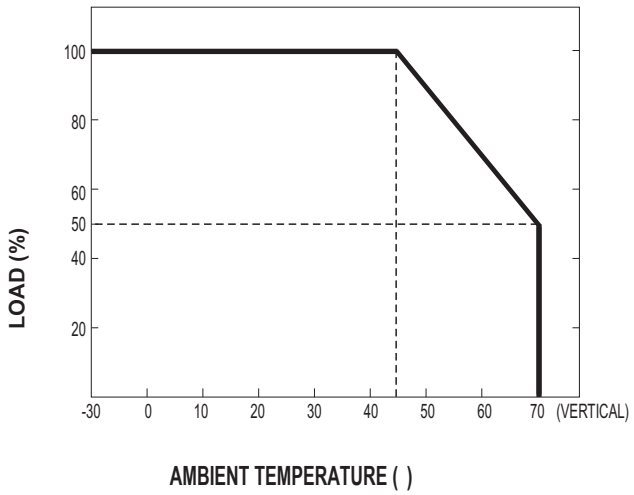
■ Block Diagram

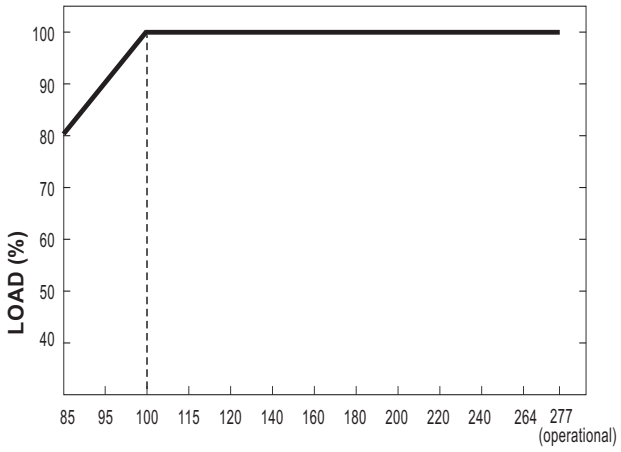


■ Derating Curve



AMBIENT TEMPERATURE ( )

■ Output Derating VS Input Voltage



INPUT VOLTAGE (VAC) 60Hz

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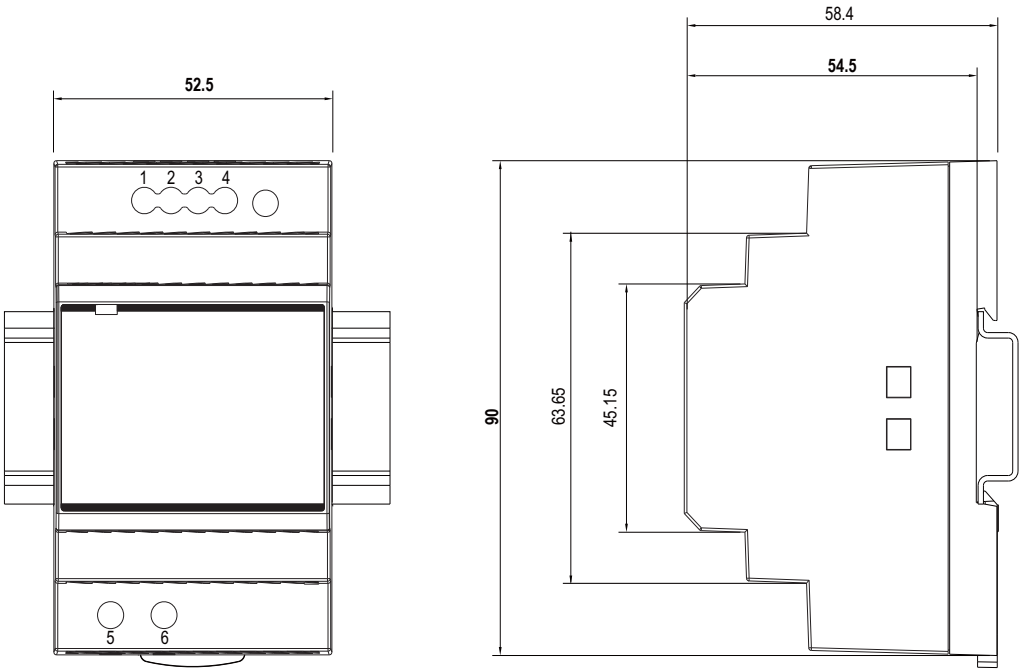
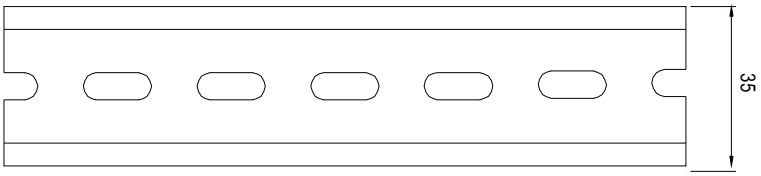
■ Mechanical Specification

（Unit: mm , tolerance ± 0.5mm)





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

Terminal Pin No. Assignment

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

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