SA55EDR75.. Guide rail power supply Series

DIMENSION：32*125.2*102mm

Features:

- Universal AC input/Full range
- Protections: Short circuit/Overload/Over voltage/Over temperature
- Cooling by free air convection
- Built-in EMI filter with minimal Bellows
- Power Protection Level : IP31
- 100% full load burn-in test
- Complay with EN55022:2010+AC：2010+AC：2011/EN61000-3-2 and EN61000-4-2,3,4,5,6,8,11/EN60950-1
- 3-year quality assurance (two replacement per year, free maintenance for two years)

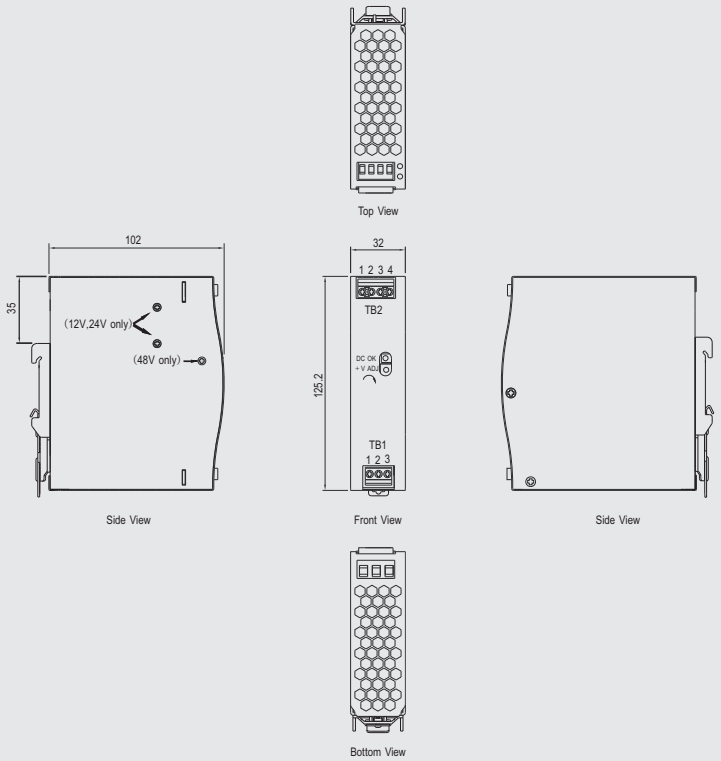
SPECIFICATION

CE RoHS

MODEL		SA55EDR7512	SA55EDR7524	SA55EDR7548
OUTPUT	DC VOLTAGE	12V	24V	48V
	RATED CURRENT	6.3A	3.2A	1.6A
	CURRENT RANGE	0-6.3A	0-3.2A	0-1.6A
	RATED POWER	75.6W	76.8W	76.8W
	RIPPLE & NOISE (max.) Note.2	80mVp-p	120mVp-p	150mVp-p
	VOLTAGE ADJ. RANGE	12-14V	24-28V	48-55V
	VOLTAGE TOLERANCE Note.3	±2.0%	±1.0%	±1.0%
	LINE REGULATION	±0.5%	±0.5%	±0.5%
	LOAD REGULATION	±1.0%	±1.0%	±1.0%
	SETUP, RISE TIME	1200ms,60ms/230VAC 2000ms,60ms/115VAC (at full load)		
	HOLD UP TIME (Typ.)	60ms/230VAC 12ms/115VAC (at full load)		
INPUT	VOLTAGE RANGE Note.6	90~264VAC 127~370VDC [DC input operation possible by connecting AC/L(+),AC/N(-)]		
	FREQUENCY RANGE	47~63Hz		
	EFFICIENCY(Typ.)	85.5%	87.5%	88.5%
	AC CURRENT(Typ.)	1.45A/115VAC 0.9A/230VAC		
	INRUSH CURRENT (Typ.)	20A/115VAC 35A/230VAC		
	LEAKAGE CURRENT	<1mA/240VAC		
PROTECTION	OVERLOAD	105%~130% rated output power		
		Protection type : Constant current limiting, recovers automatically after fault condition is removed		
	OVER VOLTAGE	14~17V	29~33V	56~65V
		Protection type : Shut down o/p voltage, re-power on to recover		
	OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover		
ENVIRONMENT	WORKING TEMP.	-20℃~+60℃ (Refer to "Derating Curve")		
	WORKING HUMIDITY	20~95%RH non-condensing		
	STORAGE TEMP.,HUNMIDITY	-40~+85℃ , 10~95%RH		
	TEMP. COEFFICIENT	±0.03%/℃ (0~50℃)		
	VIBRATION	Component : 10~500Hz,2G 10min./1 cycle , 60min. each along X,Y,Z axes; Mounting: Compliance IEC60068-2-6		
SAFETY& EMC (Note.4)	SAFETY STANDARADS	UI508, TUV BS EN/EN62368-1, EAC TP TC 004, BSMI CNS14336-1 approved; (meet BS EN/EN60204-1)		
	WITHSTAND VOLTAGE	I/P-O/P : 2KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC		
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG: > 100M Ohms/500VDC/25℃/70%RH		
	EMC EMISSION	Compliance to BS EN/EN55032(CISPR32), BS EN/EN61000-3-2,EAC TP TC 020, CNS13438 Class A		
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11,BS EN/EN55024, BS EN/EN61000-6-2(BS EN/EN50082-2), heavy industry level, criteria A , EAC TP TC 020		
OTHERS	MTBF	506.6K hrs. MIL-HDBK-217F(25℃)		
	DIMENSION	32*125.2*102mm(W*H*D)		
	PACKING	0.51Kg; 28pcs/15.3Kg/1.22CUFT		
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line ragulation and load regulation. 4. The power supply is considered a component which will be installed into final equipment. The final equipment must be re-confirmed that it still meets EMC directives. 5. Installation clearances : 40mm on top, 20mm on the bottom, 5mm on the left and right side are recommended when loaded permanently with full power. In case the adjacent device is a heat soure, 15mm clearance is recommended. 6. Derating may be needed under low input voltage. Please check the derating curve for more details.			

Mechanical Specification

measurement unit : mm



Terminal Pin No. Assignment (TB1)

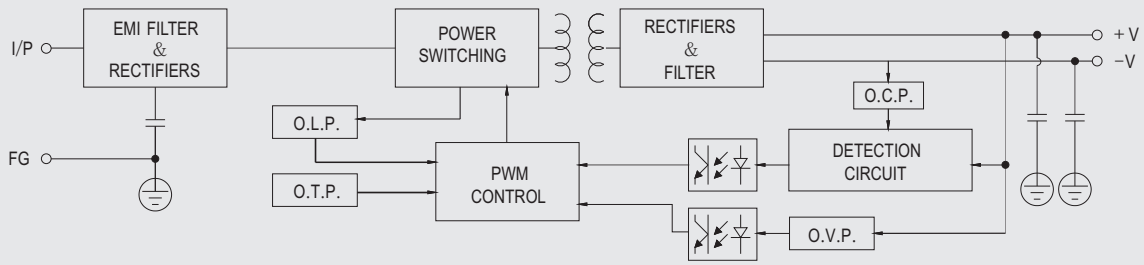
Pin No.	Assignment
1	FG ⏚
2	AC/N or DC −
3	AC/L or DC +

Terminal Pin No. Assignment (TB2)

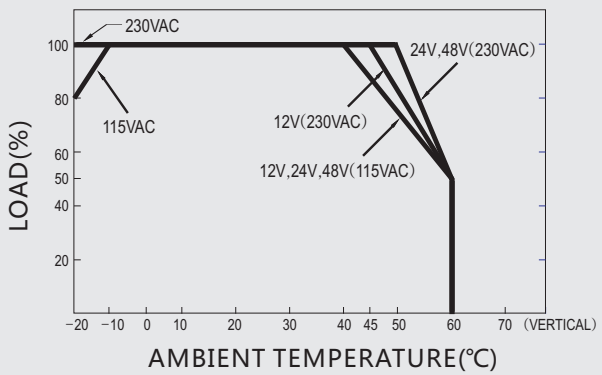
Pin No.	Assignment
1,2	DC OUTPUT −V
3,4	DC OUTPUT+ V

Block Diagram

fosc : 85KHz



Derating Curve



Static Characteristics