

### **SA55EDR120**



DIMENSION: 40\*125.2\*113.5mm

### Features:

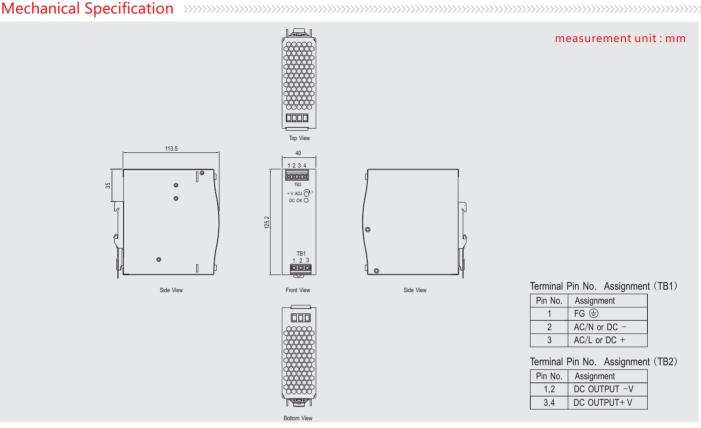
- Universal AC input/Full range
- Protections: Short circuit/Overload/Over voltage/Over temperature
- Cooling by free air convection
- Built-in EMI filter with minimal Bellows
- Power Protection Level: IP31
- 100% full load burn-in test
- Complay with EN55022:2010+AC : 2010+AC : 2011/EN61000-3-2 and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



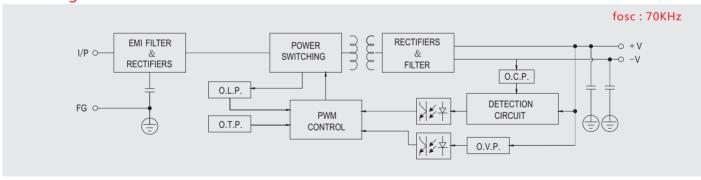
	MODEL	SA55EDR12012	SA55EDR12024	SA55EDR12048	
	DC VOLTAGE	12V	24V	48V	
OUTPUT	RATED CURRENT	10.0A	5.0A	2.5A	
	CURRENT RANGE	0-10.0A	0-5.0A	0-2.5A	
	RATED POWER	120W	120W	120W	
	RIPPLE & NOISE (max.) Note.2	100mVp-p	120mVp-p	150mVp-p	
	VOLTAGE ADJ. RANGE	12-14V	24-28V	48-55V	
	VOLTAGE TOLERANCE Note.3	±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 2500ms,60ms/115VAC(at full load)			
	HOLD UP TIME ( Typ. )				
INPUT	VOLTAGE RANGE Note.6				
	FREQUENCY RANGE	47~63Hz			
	EFFICIENCY(Typ.)	85%	87.5%	88.5%	
	AC CURRENT(Typ.)				
	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			
	WORKING TEMP.	-20°C~+60°C (Refer to "Derating Curve")			
	WORKING HUMIDITY	20~95%RH non-condensing			
	STORAGE TEMP., HUNMIDITY	-40~+85°C , 10~90%RH			
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)			
	VIBRATION	Component: 10~500Hz,2G 10min./1 cycle, 60min. each along X,Y,Z axes; Mounting: Compliance IEC60068-2-6			
		I/P-O/P: 2KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC			
SAFETY&		I/P-O/P, I/P-FG, O/P-FG: > 100M Ohms/500VDC/25°C/70%RH			
EMC					
(Note.4)	<b>EMC IMMUNITY</b>	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),			
	MATRE	heavy industry level, criteria A , EAC TP TC 020			
OTHERS	MTBF	474.6K hrs. MIL-HDBK-217F(25°C)			
	DIMENSION	40*125.2*113.5mm(W*H*D)			
	PACKING	0.6Kg; 20pcs/13Kg/1.16CUFT			
NOTE	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.				
		. Ripple & noise are measured at 20MHz of bandwidth by using a 12 - twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. . Tolerance : includes set up tolerance, line ragulation and load regulation.			
		he 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.			
		s : 40mm on top, 20mm on the bottom, 5mm on the left and right side are recommended when loaded permanently with full power. nt device is a heat soure, 15mm clearance is recommended.			
				when loaded permanently with full powe	



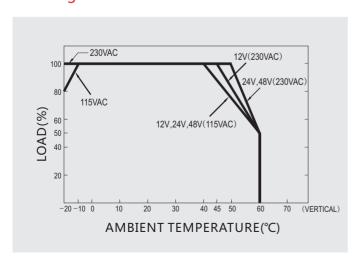
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## **Block Diagram**



## Derating Curve



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