



## ■ Features :

- High efficiency 91% and low power dissipation
- 150% peak load capability
- Built-in active PFC function, PF>0.93
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- Can be installed on DIN rail TS-35/7.5 or 15
- \* UL 508 (industrial control equipment) approved
- BS EN/EN61000-6-2(BS EN/EN50082-2) industrial immunity level
- \* Built-in DC OK relay contact
- 100% full load burn-in test
- 3 years warranty











## ■ GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

## **SPECIFICATION**

	ATION	AOINE	S62368-1 RoHS TPTC004	UL300 B3 EN/EN02308-1 IEC02300-1	
MODEL		SDR-120-12	SDR-120-24	SDR-120-48	
ОИТРИТ	DC VOLTAGE	12V	24V	48V	
	RATED CURRENT	10A	5A	2.5A	
	CURRENT RANGE	0 ~ 10A	0 ~ 5A	0 ~ 2.5A	
	RATED POWER	120W	120W	120W	
	PEAK CURRENT	15A	7.5A	3.75A	
	PEAK POWER Note.6	180W (3 sec.)			
	RIPPLE & NOISE (max.) Note.2	,	100mVp-p	120mVp-p	
	VOLTAGE ADJ. RANGE	12 ~ 14V	24 ~ 28V	48 ~ 55V	
	VOLTAGE TOLERANCE Note.3		±1.0%	±1.0%	
	LINE REGULATION	±0.5%	±0.5%	±0.5%	
	LOAD REGULATION	±1.0%	±1.0%	±1.0%	
	SETUP, RISE TIME	1500ms, 60ms/230VAC 3000ms, 60ms/115VAC at full load			
	HOLD UP TIME (Typ.)	20ms/230VAC 20ms/115VAC at full load			
INPUT	, , ,	88 ~ 264VAC 124 ~ 370VDC			
	FREQUENCY RANGE	47 ~ 63Hz			
	POWER FACTOR (Typ.)	0.93/230VAC 0.96/115VAC at full loa	d		
	EFFICIENCY (Typ.)	89%	91%	90.5%	
	AC CURRENT (Typ.)	1.4A/115VAC 0.7A/230VAC		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	INRUSH CURRENT (Typ.)	35A/115VAC 70A/230VAC			
	LEAKAGE CURRENT	<1mA/240VAC			
PROTECTION		Normally works within 110 ~ 150% rated output power for more than 3 seconds and then shut down o/p voltage			
	OVERLOAD	>150% rated power, constant current limiting with auto-recovery within 3 seconds and shut down o/p voltage after 3 seconds			
	OVER VOLTAGE	14 ~ 17V	29 ~ 33V	56 ~ 65V	
		Protection type : Shut down o/p voltage, re		00 001	
		$95^{\circ}\text{C} \pm 5^{\circ}\text{C}$ (TSW) detect on heatsink of power switch			
	OVER TEMPERATURE	Protection type: Shut down o/p voltage, recovers automatically after temperature goes down			
FUNCTION	DC OK REALY CONTACT RATINGS (max.)				
	WORKING TEMP.	-25 ~ +70°C (Refer to "Derating Curve")			
	WORKING HUMIDITY	20 ~ 95% RH non-condensing			
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH			
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)			
	VIBRATION	Component:10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6			
	SAFETY STANDARDS	UL508, TUV BS EN/EN62368-1, AS/NZS 62368.1, EAC TP TC 004, BSMI CNS15598-1 approved; (meet BS EN/EN60204-1)			
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC O/P-DC OK:0.5KVAC			
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 500VDC / 25°C / 70% RH			
	EMC EMISSION	Compliance to BS EN/EN55032 (CISPR32), BS EN/EN61204-3 Class B, BS EN/EN61000-3-2,-3, EAC TP TC 020, CNS15936 Class B			
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55035, BS EN/EN61000-6-2 (BS EN/EN50082-2), BS EN/EN61204-3, heavy industry level, EAC TP TC 020, SEMI F47 approved			
OTHERS	MTBF	1764.6K hrs min. Telcordia SR-332 (Bellcore); 292.1K hrs min. MIL-HDBK-217F (25°C)			
	DIMENSION	40*125.2*113.5mm (W*H*D)	, , , , , , , , , , , , , , , , , , , ,		
	PACKING	0.67Kg; 20pcs/14.4Kg/1.0CUFT			
NOTE	All parameters NOT special     Ripple & noise are measure     Tolerance: includes set up     The power supply is consid EMC directives. (as availab     Installation clearances: 40r     In case the adjacent device     3 seconds max., please ref     Derating may be needed ur	ally mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.  red at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 $\mu$ F & 47 $\mu$ F parallel capacitor.  to tolerance, line regulation and load regulation.  dered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets oble on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)  mm on top, 20mm on the bottom, 5mm on the left and right side are recommended when loaded permanently with full power.  e is a heat source, 15mm clearance is recommended.			

- 8. 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).
- % Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx







