



power SDR - 120 - 12

URL: <https://www.sxplc.com/power-sdr-120-12>

Product data sheet

SPECIFICATION

MODEL		SDR-120-12
OUTPUT	DC VOLTAGE	12V
	RATED CURRENT	10A
	CURRENT RANGE	0 ~ 10A
	RATED POWER	120W
	PEAK CURRENT	15A
	PEAK POWER <i>Note.6</i>	180W (3 sec.)
	RIPPLE & NOISE (max.) <i>Note.2</i>	100mVp-p
	VOLTAGE ADJ. RANGE	12 ~ 14V
	VOLTAGE TOLERANCE <i>Note.3</i>	± 1.0%
	LINE REGULATION	± 0.5%
LOAD REGULATION	± 1.0%	

INPUT	VOLTAGE RANGE <i>Note.7</i>	88 ~ 264VAC	124 ~ 370VDC	
	FREQUENCY RANGE	47 ~ 63Hz		
	POWER FACTOR (Typ.)	0.93/230VAC	0.96/115VAC at full load	
	EFFICIENCY (Typ.)	89%	91%	90.5%
	AC CURRENT (Typ.)	1.4A/115VAC	0.7A/230VAC	
	INRUSH CURRENT (Typ.)	35A/115VAC	70A/230VAC	
	LEAKAGE CURRENT	+1mA / 240VAC		
	OVERLOAD	Normally works within 110 ~ 150% rated output power for more than 3 seconds and then shut down o/p voltage >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	58 ~ 65V
	OVER TEMPERATURE	95°C ± 5°C (TSW) detect on heatsink of power switch Protection type: Shut down o/p voltage, re-power on to recover Protection type: Shut down o/p voltage, recovers automatically after temperature goes down		
FUNCTION	NO DI BEAL CONTACT RATINGS (max.) 80V/60/3.3A, 30V/60/1A, 30V/6/0.3A resistive load 25 ~ +70°C (Refer to "Derating Curve")			
ENVIRONMENT	WORKING TEMP.	20 ~ 95% RH non-condensing		
	WORKING HUMIDITY	40 ~ +85°C, 10 ~ 95% RH		
	TEMP. COEFFICIENT	± 0.03%/°C (0 ~ 50°C)		
SAFETY & EMC <i>Note.4</i>	VIBRATION	Component 10 ~ 500Hz, 20 10mm./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6		
	SAFETY STANDARDS	UL508, TUV EN60950-1 approved (max. EN60204-1)		
	WITHSTAND VOLTAGE	IP-OP: 3KVAC, IP-FG: 2KVAC, O/P-FG: 0.5KVAC, O/P-DC OK: 0.5KVAC		
	ISOLATION RESISTANCE	IP-OP, IP-FG, O/P-FG: >100M Ohms / 500VDC / 25°C / 70% RH		
EMC	EMC EMISSION	Compliance to EN55011, EN55022 (CISPR22), EN61204-3 Class B, EN61000-3-2, -3		
	EMC IMMUNITY	Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, EN55024, EN61000-6-2 (EN50082-2), EN61204-3, heavy industry level, criteria A, SEMI F47, Q1 approved		

