



- Features :
- AC input range selectable by switch
  - 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
  - LED indicator for power on
  - 100% full load burn-in test
  - Fixed switching frequency at 55KHz
  - 3 years warranty



## SPECIFICATION

MODEL	DR-120-12	DR-120-24	DR-120-48
OUTPUT	DC VOLTAGE	12V	24V
	RATED CURRENT	10A	5A
	CURRENT RANGE	0 ~ 10A	0 ~ 5A
	RATED POWER	120W	120W
	RIPPLE & NOISE (max.) Note.2	80mVp-p	80mVp-p
	VOLTAGE ADJ. RANGE	12 ~ 14V	24 ~ 28V
	VOLTAGE TOLERANCE Note.3	± 2.0%	± 1.0%
	LINE REGULATION	± 0.5%	± 0.5%
	LOAD REGULATION	± 1.0%	± 1.0%
	SETUP, RISE TIME	500ms, 70ms/230VAC	500ms, 70ms/115VAC at full load
INPUT	HOLD UP TIME (Typ.)	36ms/230VAC	32ms/115VAC at full load
	VOLTAGE RANGE	88 ~ 132VAC/176 ~ 264VAC by switch	248 ~ 370VDC
	FREQUENCY RANGE	47 ~ 63Hz	
	EFFICIENCY (Typ.)	80%	84%
	AC CURRENT (Typ.)	2.6A/115VAC	1.6A/230VAC
	INRUSH CURRENT (Typ.)	COLD START 20A/115VAC	40A/230VAC
PROTECTION	LEAKAGE CURRENT	<3.5mA / 240VAC	
	OVERLOAD	105 ~ 150% rated output power	
	OVER VOLTAGE	15 ~ 16.5V	29 ~ 33V
	OVER TEMPERATURE	85°C ± 5°C (TSW1)	90°C ± 5°C (TSW1)
		Protection type : Constant current limiting, recovers automatically after fault condition is removed	Protection type : Shut down o/p voltage, re-power on to recover
ENVIRONMENT	WORKING TEMP.	-10 ~ +60°C (Refer to "Derating Curve")	
	WORKING HUMIDITY	20 ~ 90% RH non-condensing	
	STORAGE TEMP., HUMIDITY	-20 ~ +85°C, 10 ~ 95% RH	
	TEMP. COEFFICIENT	± 0.03%/°C (0 ~ 50°C)	
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6	
SAFETY & EMC (Note 4)	SAFETY STANDARDS	UL508, UL60950-1, TUV EN60950-1 approved	
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG: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 EN55011, EN55022 (CISPR22) Class B, EN61000-3-2, -3	
OTHERS	EMC IMMUNITY	Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, EN55024, EN61000-6-2 (EN50082-2), heavy industry level, criteria A	
	MTBF	432.1Khrs min. MIL-HDBK-217F (25°C)	
	DIMENSION	65.5*125.2*100mm (W*H*D)	
NOTE	PACKING	0.79Kg; 20pcs/16.5Kg/1.29CUFT	
	1. All parameters NOT specially mentioned are measured at 230VAC 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 0.1uf & 47uf 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 equipment must be re-confirmed that it still meets EMC directives.		

Specifications are subject to change without notice. It is responsibility of each customer to thoroughly test each product and part number under their unique parameters and environments to ensure a product will work properly and reliably.

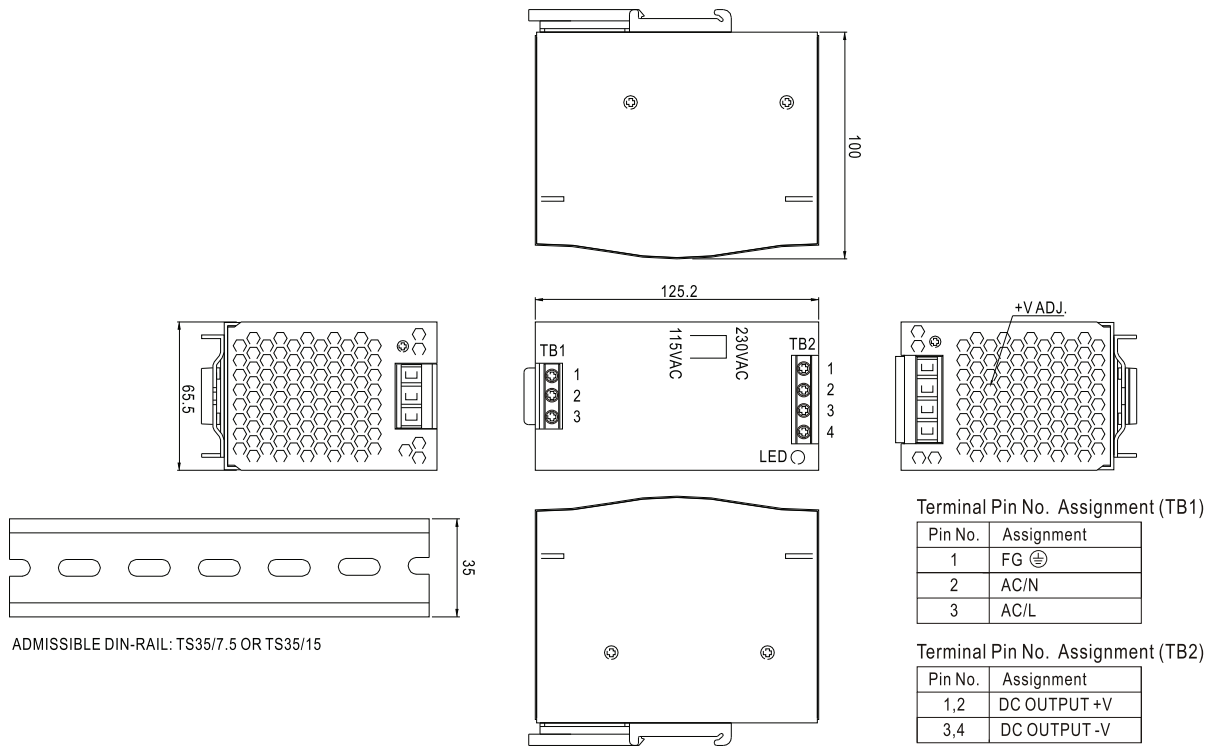
Click below for more details, to buy on-line or request volume pricing:

<http://power.sager.com/mean-well-DR-120-power-supply.html>

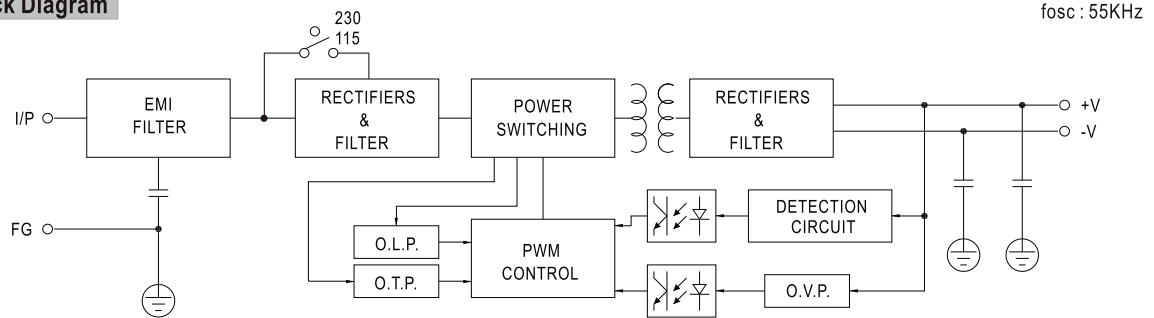
**(866) 588-1750**  
 power@sager.com  
<http://power.sager.com>

## Mechanical Specification

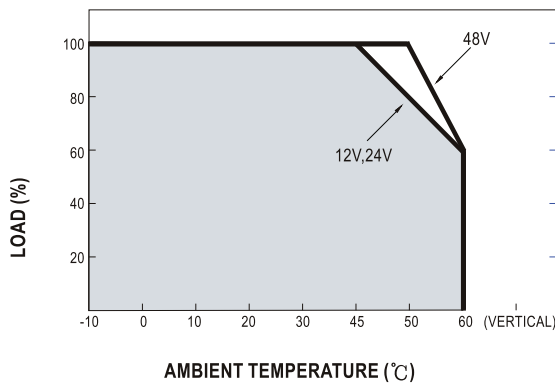
Case No. 921A Unit:mm



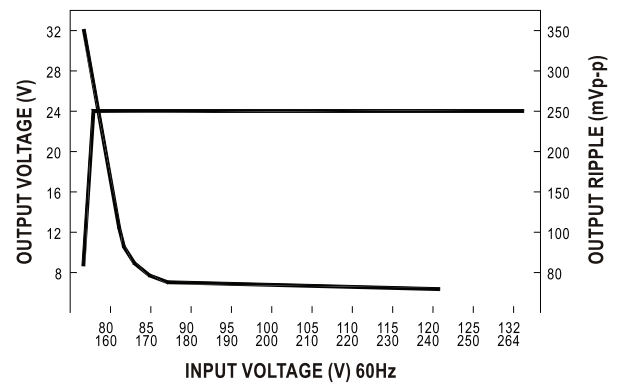
## Block Diagram



## Derating Curve



## Static Characteristics (24V)



File Name:DR-120-SPEC 2013-09-12

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