DRF120-24-1

SPECIFICATIONS

PA618-01-01C

MODEL			
ITEMS			DRF120-24-1
1	Nominal Output Voltage	V	24
2	Maximum Output Current	Α	5
	Peak Output Current (*12)) A	7.5
4	Maximum Output Power	W	120
5	Peak Output Power (*12)) W	180
6	Standby Input Power (230VAC) (*13)) W	< 0.5
7	Efficiency (Typ) (115/230VAC) (*1)) %	88/90.5
8	Average Active Efficiency Related to ErP (Typ) (230VAC)	%	87
9	Input Voltage Range (*2)) V	85 ~ 264VAC (47-63Hz)
	1		(Withstand 300VAC Surge for 5 seconds)
10	Input Current (Typ) (115/230VAC) (*1)) A	1.2 / 0.6
11	Inrush Current (Typ) (230VAC) (*3)) A	20A
12	PFHC	-	Designed To Meet IEC61000-3-2
13	Power Factor (Typ) (115/230VAC) (*1)) -	0.98 / 0.95
	Output Voltage Range	V	24~28
15	Ripple & Noise (*1,4)) mV	240
	Line Regulation (*5,6)		96
	Load Regulation (*5,7)		240
18	Temperature Coefficient	-	Less than 0.02% / °C
	Over Current Protection (*8)) -	Constant current limit with auto recovery / latch
20	Over Voltage Protection (*9)) V	30~35.5
	Hold-up Time (Typ) (*1)	ms	20
	Leakage Current (*10)) -	< 1mA at 240VAC
23	Remote Sensing	-	-
	Remote ON/OFF control	-	Possible (Active Low)
	Monitoring Signal	-	DC OK Relay, DC OK LED, Peak LED
	Series Operation	-	Possible
27	Parallel Operation	1_	Possible
	Operating Temperature (*11,15)) -	-25∼+60°C: 100%, +70°C: 75%
29	Operating Humidity	-	5∼95%RH (No dewdrop)
30	Storage Temperature	-	-40°C ~ +85°C
	Storage Humidity	-	5∼95%RH (No dewdrop)
32	Cooling	-	Convection Cooling
33	Withstand Voltage	-	Input - Output : 4242VDC (20mA), Input - FG :2121VDC (20mA)
			Output - FG: 500VDC (100mA) For 1min.
34	Isolation Resistance	-	Input - FG, Input - Output and Output - FG
			More than $100\text{M}\Omega$ (500VDC) at 25°C and 70%RH
35	Vibration	-	More than 100MΩ (500VDC) at 25°C and 70%RH At no operating, 10 - 55Hz (sweep for 1min)
1		1	19.6m/s ² (2G) Constant, X, Y, Z lhour each.
		1-	
36	Shock/(In Package)	-	Less Than 196 m/s ² (20G)
37	Operating Altitude	Ì	3000m
	Safety	-	Approved by UL60950-1, CSA22.2 No. 60950-1-07 (2nd Edition)
		1	IEC/EN60950-1, UL508.
39	EMI	1	
		-	Designed to meet EN55022-B,CISPR22-B,
40	CE	-	LVD, RoHS 2, EMC
41	Immunity	-	Designed to meet EN61000-4-2 (Level 2,3), -3 (Level 3),
		1	-4 (Level 3), -5 (Level 4), -6 (Level 3), -8 (Level 4), -11
42	Weight(Typ.)	g	600
	Size (L, x W x H)	mm	36.5 x 123.4 x 115.4 (Refer to Outline drawing)

43 | Size (L x W x H) | mm
* Read instruction manual carefully , before using the power supply unit.

=NOTES

- *1. At Maximum Output Power, nominal input voltage, Ta = 25°C.
- *2. For cases where conformance to various safety specs (UL, CSA, EN) are required, to be described as 100 240VAC, 50 / 60Hz on name plate.
- *3. Not applicable for the in-rush current to Noise Filter for less than 0.2ms.
- *4. Ripple & noise are measured at 20MHz by using a 300mm twisted pair of load wires terminated with a 0.1uF Film Capacitor and a 47uF Electrolytic Capacitor.
- *5. Measure line & load regulation at output terminal.
- *6. 85 264VAC, constant load.
- *7. No load Full load, constant input voltage.
- *8. Constant current limit with auto recovery. Over rated current (>105%) condition for more than 4 sec will cause power supply to shutdown.
- *9. OVP circuit will shutdown output, manual reset (CNT reset or Re-power on).
- *10. Measured by each measuring method of UL and EN (at 60Hz), Ta = 25°C.
- *11. Refer to Output Derating Curve (PA618-01-02_) for details of output derating versus ambient temperature.
- *12. Operating period at peak output current is 4sec. max, duty ≤ 0.35, <5Arms Current.
- *13. Standby input power refers to the power consumption during remote off.
- *14. All parameters not specifically mentioned are measured at 230VAC input, rated load and Ta = 25°C.
- *15. For cases where conformance to various safety specs, operating temperature is $-25 \sim +70$ °C.

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PA618-01-02

DERATING CURVE

*COOLING: CONVECTION COOLING

COOLING	COOLING: CONVECTION COOLING				
Ta (°C)	LOAD (%)	STANDARD MOUNTING			
-25 ~ +60 70	100 75	TOX Lambda			

