

**DRL100-1/C2 SPECIFICATIONS**

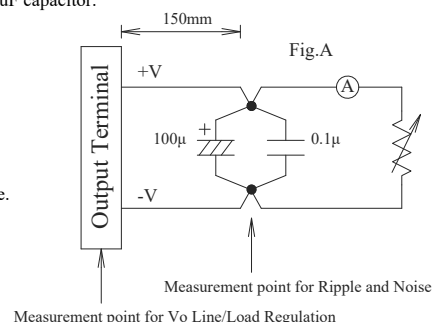
CA819-01-01/C2

ITEMS		MODEL	DRL100-24-1/C2
1	Nominal Output Voltage	V	24
2	Maximum Output Current	A	3.67
3	Maximum Output Power	W	88
4	No Load Input Power related to Erp	W	<0.5
5	Efficiency (Typ) (115/230VAC) (* 1)	%	88/90
6	Active Average Efficiency related to Erp	%	87
7	Input Voltage Range		85 - 264VAC (47-63Hz) or 120 - 373 VDC (Withstand 300VAC Surge for 5 seconds)
8	Input Current (Typ) (115/230VAC) (* 1)	A	2.0/1.1
9	Inrush Current (Typ) (230VAC) (* 3)	-	60 A cold start
10	PFHC	-	Compliant to IEC 61000-3-2, Class A
11	Power Factor (Typ) (115/230VAC) (* 1)	-	0.50/0.47
12	Output Voltage Range	V	Fixed
13	Output Voltage Accuracy	%	±1
14	Ripple and Noise (* 1,4)	-	1% max
15	Line Regulation (* 4, 5)	-	1% max
16	Load Regulation (* 4, 6)	-	1% max
17	Transient Response Deviation(25~75% load change)	mV	<1200
18	Transient Response Recovery Time	ms	1 , to within 2% of settled value, 25 - 75% load change
19	Temperature Coefficient	-	Less than ±0.02%/°C
20	Over Current Protection (* 7)	-	102% ~ 113%
21	Over Voltage Protection (* 8)	V	26.0 ~ 30.0
22	Hold-Up Time (Typ) (*1)	ms	15 typ. @ 115VAC input voltage, full load, Ta = 25°C
23	Leakage Current (* 9)	-	-
24	Indication	-	DC OK LED(green)
25	Parallel Operation	-	-
26	Series Operation	-	Possible
27	Operating Temperature (* 10)	-	-20 to +71°C(-25°C startup) 115VAC~240VAC: Full load at +51°C;(derate linearly to 60% load at +71°C) -20 to +71°C(-25°C startup) 100VAC~115VAC: Full load at +40°C;(derate linearly to 40% load at +71°C)
28	Operating Humidity	%	20 - 90 non condensing
29	Operating Altitude	m	3000m, derating 5°C/100m above 2000m
30	Storage Temperature	-	- 40 ~ +85°C
31	Storage Humidity	-	5 ~ 95 % (No condensing)
32	Cooling	-	Convection
33	Withstand Voltage	-	Input - Output : 3.0kV AC (20mA)
34	Isolation Resistance	-	Input - Output: More than 100MΩ (500VDC) at 25°C and 70% RH
35	Vibration	-	Operating, IEC 60068-2-6, Sine Wave, 10-500Hz, 19.6m/s <sup>2</sup> (2G peak); 10 min per cycle,60min for all X,Y,Z directions
36	Shock (In package)	-	Operating, IEC 60068-2-27, Half Sine Wave, 39.2m/s <sup>2</sup> (4G )for a duration of 22ms, 3 shocks for each 3 directions,9 times in total
37	Pollution	-	Degree 2, material group 3
38	Ingress Protection	-	IP20
39	Isolation Class / Class of Protection	-	Class II ( L , N only)
40	Safety	-	Approved by UL60950-1, CSA22.2 No.60950-1-07(2nd edition), EN60950-1, UL508 , Class 2 Output in accordance with UL1310
41	Line Dip (200~240VAC)	-	SEMI F47
42	EMI	-	CE: EN55022-B, CISPR22-B ; RE : EN55022-A, CISPR22-A
43	Immunity	-	EN 61000-4-2 (Level 3) -3 (Level 3) -4 (Level 4), -5 (Level 3), -6 (Level 3), -8 (Level 4), -11 (Class 3)
44	Weight (Typ)	-	280g
45	Dimension (W x H x D) (*11)	mm	72 x 91 x 55.6

\* 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.  
DC input not approved by safety.
- \* 3 : Not applicable for the in-rush current to Noise Filter for less than 0.2ms.
- \* 4 : Please refer to Fig A for measurement of line & load regulation, ripple and noise voltage.  
Ripple & noise are measured at 20MHz by using a twisted pair of load wires terminated with a 0.1uF and 100uF capacitor.
- \* 5 : 85 - 264VAC, constant load.
- \* 6 : No load - Full load ( Maximum power ), constant input voltage.
- \* 7 : Output hiccup with automatic recovery.  
Avoid to operate at overload or dead short for more than 30 seconds.
- \* 8 : OVP circuit will shutdown output, manual reset (Re-power on).
- \* 9 : Measured by each measuring method of UL and EN(at 60Hz), Ta=25°C.
- \* 10 : Refer to Output Derating Curve(CA819-01-02/C2-\_) for details of output derating versus ambient temperature.  
- Load (%) is percent of Maximum Output Power and Maximum Output Current ( Item 2 and 3).  
Do not exceed derating of Maximum Output Power and Maximum Output Current.  
- 100% load start up at -25°C is possible, however, it may not fulfil all the specifications.
- \* 11 : Refer to outline drawing CA819-02-01/C2-\_.

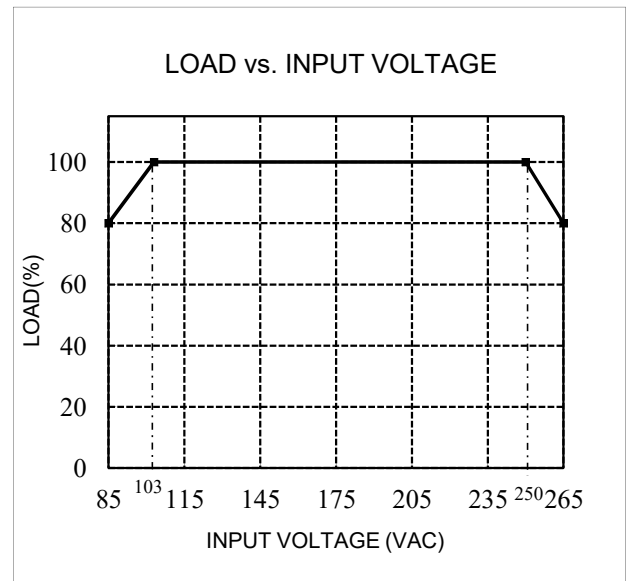
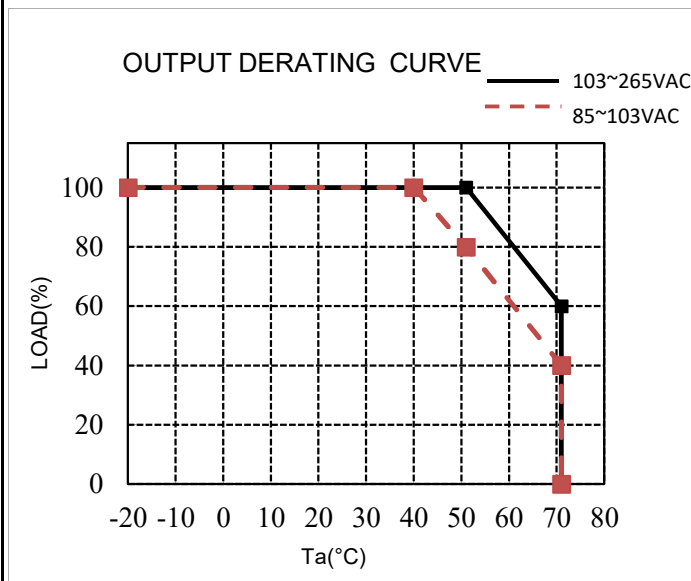


## DRL100-1/C2 OUTPUT DERATING

CA819-01-02/C2

		Load (%)	
		115~240VAC	100~115VAC
Safety input range		115~240VAC	100~115VAC
Input Voltage Range		103~265VAC	85~103VAC
Ta(°C)	-20	100%	100%
	40	100%	100%
	51	100%	80%
	71	60%	40%

Input Voltage (VAC)	Load (%)
85	80
103-250	100
265	80



### Standard Mounting

