SPECIFICATIONS

CA818-01-01C

ITEMS MODI		EL	DRL60-12-1	DRL60-24-1	
1	Nominal Output Voltage	V	12	24	
2	Maximum Output Current	Α	4.5	2.5	
3	Maximum Output Power	W	54	60	
	No Load Input Power related to Erp	W	<0.5	<0.5	
	Efficiency (Typ) (115/230VAC) (*1)	%	87 / 87	89 / 90	
6	Active Average Efficiency related to Erp (115/230VAC)	%	≥87 (at 15V output)	≥87	
_	Input Voltage Range (*2)	_	85 - 264VAC (47-63Hz) or 120 - 373 VDC	(Withstand 300VAC Surge for 5 seconds))	
	Input Current (Typ) (115/230VAC) (*1)	A	1.2/0.8		
	Inrush Current (Typ) (230VAC) (*3)	_	60A cold start		
	PFHC	_	Compliant to IEC 61000-3-2,Class A		
	Power Factor (Typ) (115/230VAC) (*1)	_	0.5/0.43		
	Output Voltage Range	V	12.0 - 15.0(Adjustable)	24.0 - 28.0 (Adjustable)	
	Ripple and Noise (* 1,4)			max	
	Line Regulation (*4,5)	_	1% max		
	Load Regulation (*4,6)	_	1% max		
	Transient Response Deviation(25~75% load change)	mV	<750	<1200	
	Transient Response Recovery Time	ms			
	Temperature Coefficient	1113	1, to within 2% of settled value, 25~75% load change Less than 0.02%/°C		
	Over Current Protection (*7)		105%~		
		V	16.0~19	29~35.0	
	. ,	·			
	Hold-Up Time (Typ) (*1)	_	20ms @ 115VAC input voltage, full load, Ta=25°C		
	Leakage Current (*9)	_	DC OV LED/array)		
	Indication	_	DC OK LED(green)		
	Parallel Operation	_	- Donailla		
	Series Operation	-	Possible 20 to ±71°C (25°C startum) Full load at ±55°C (days to linearly to 60% load at ±71°C)		
	Operating Temperature (*10)	-	-20 to +71°C (-25°C startup) Full load at +55°C; (derate linearly to 60% load at +71°C)		
	Operating Humidity	_	20~ 90 % (No condensing)		
	Operating Altitude	m	3000m, derating 5°C/1000m above 2000m		
	Storage Temperature	-	-40~+85°C		
	Storage Humidity	-	5 ~ 95 %(No condensing)		
	Cooling	-	Convection		
	Withstand Voltage	-	Input - Output : 3.0kVAC (20mA)		
33	Isolation Resistance	-	Input - Output: More than 100MΩ (500VDC) at 25°C and 70%RH		
34	Vibration			ave, 10-500Hz, 19.6m/s ² (2G peak);	
			10 min per cycle,60min for all X,Y,Z directions Operating, IEC 60068-2-27, Half Sine Wave, 39.2m/s ² (4G) for a duration of 22ms,		
35	Shock (In package)		1 2		
	(F		3 shocks for each 3 dir	rections,9 times in total	
36	Pollution	-	Degree 2, material group 3		
	Ingress Protection	-	IP20		
38	Isolation Class / Class of Protection	-	Class II (L, N only)		
39	Safety	_	Approved by UL60950-1, CSA22.2 No.60	950-1-07(2nd edition), EN60950-1, UL508 Approved by UL1310 class2	
40	Line Dip (200~240VAC)	_	ŞEM	- Approved by UL1310 class2 SEMI F47	
	EMI (200~240VAC)		SEMI F4 / CE: EN55022-B, CISPR22-B ; RE : EN55022-A, CISPR22-A		
71	Immunity		Designed to meet EN 61000-4-2 (Level 2		
42					
12	Waight (Trm)	_	-6 (Level 3), -8 (Level 4), -11 (Class 3)		
	Weight (Typ)		200g		
44	Dimension (W x H x D) (*11)	mm	54 x 91 x 55.6		

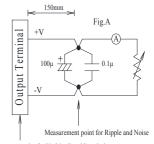
- * Read instruction manual carefully , before using the power supply unit.
 - = NOTES=
- * 1 : At Maximum Output Power, nominal input voltage, Ta = 25°C.
- * 2: For cases where conformance to various safety specs (UL, CSA, EN) are required, to be described as 100 240VAC, 50 / 60Hz on name plate. DC input not approved by safety.
- st 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 $^{\circ}\text{C}.$
- * 10 : Refer to Output Derating Curve(CA818-01-02_) 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 CA818-02-01_.

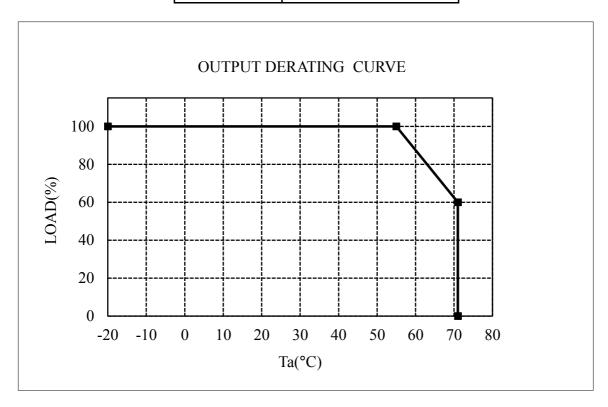


Measurement point for Vo Line/Load Regulation

OUTPUT DERATING

CA818-01-02A

Ta(°C)	LOAD(%)	
-20	100%	
55	100%	
71	60%	



Standard Mounting

