

SR230 Specifications

NEMIC-LAMBDA

* : For delivery, contact to our sales office.

A093-01-01B

MODEL		SR230	SR230	SR230	SR230	SR230	SR230	SR230	SR230	SR230	SR230	SR230	SR230	
ITEMS		-2	-5	-6	-9	-12	-15	-18	-20	-24	-28	-48		
1	Nominal Output Voltage	V	2	5	6	9	12	15	18	20	24	28	48	
2	Maximum Output Current (*9)	A	46	46	38	25.5	19.5	15.5	13	12	10	8.5	5	
3	Maximum Output Power	W	92	230	228	229.5	234	232.5	234	240	240	238	240	
4	Efficiency (Typ) (*1)	%	62	75	75	78	81	81	81	81	83	83	83	
5	Input Voltage Range (*2)	-	85 ~ 132VAC / 170 ~ 265VAC(47 ~ 440Hz) selectable or 230 ~ 330VDC Input Voltage Range shown on Front Panel : 100 - 120 / 200 - 240VAC (50 / 60Hz).											
6	Input Current (Typ) (*1)	A	100V:2.8A 200V:1.4A	100VAC : 5.6A 200VAC : 2.8A										
7	Inrush Current(Typ) (*3)	-	15A at 100VAC, 30A at 200VAC (260VDC)											
8	Output Voltage Range (Typ)	%	-10~+20	-20~+10										±20%
9	Maximum Ripple & Noise	mV	100		200								400	
10	Maximum Line Regulation (*4)	mV	20	20	24	36	48	60	72	80	96	112	192	
11	Maximum Load Regulation (*5)	mV	20	20	24	36	48	60	72	80	96	112	192	
12	Over Current Protection (*6)	A	48.0 ~ 60.0	48.0 ~ 60.0	39.0 ~ 49.5	26.5 ~ 33.2	20.4 ~ 25.4	16.3 ~ 20.2	13.6 ~ 16.9	12.6 ~ 15.6	10.5 ~ 13.0	8.9 ~ 11.1	5.2 ~ 6.5	
13	Over Voltage Protection (*7)	V	2.8 ~ 3.2	6.0 ~ 7.0	7.8 ~ 9.0	11.7 ~ 13.5	15.6 ~ 18.0	19.5 ~ 22.5	23.4 ~ 27.0	26.0 ~ 30.0	31.2 ~ 36.0	36.4 ~ 42.0	62.4 ~ 72.0	
14	Hold-up Time (Typ) (*8)	ms	20ms											
15	Remote Sensing	-	Possible											
16	Remote ON/OFF Control	-	Possible											
17	Parallel Operation	-	Possible											
18	Series Operation	-	Possible											
19	Operating Temperature (*9)	-	-20 ~ +71°C											
20	Operating Humidity	-	30 ~ 95%RH (No dewdrop)											
21	Storage Temperature	-	-40 ~ +85°C											
22	Storage Humidity	-	10 ~ 95%RH (No dewdrop)											
23	Cooling	-	Forced air by blower fan (Blower fan is mounted within supply)											
24	Temperature Coefficient	-	Less than 0.03% / °C											
25	Withstand Voltage (*10)	-	Input - Chassis : 2.5kVAC 1 min, Input - Output : 3.75kVAC 1 min, Output - Chassis : 500VAC 1 min.											
26	Isolation Resistance	-	More than 100MΩ at 25°C and 70%RH Output - Chassis : 500VDC											
27	Vibration	-	At no operating, 10 ~ 55Hz Amplitude (sweep for 1min) 0.825mm constant (Maxmum 5G) X, Y, Z 1hour each											
28	Shock	-	Less than 20G											
29	Safety Standard	UL1950	- Approved by UL											
		CSA950	- Approved by C-UL											
		EN60950	- Approved by TUV (Approved model:SR230-5,SR230-6,SR230-12,SR230-24)											
30	Conducted Emission	-	Built to meet VCCI-Class A, FCC-Class A, VDE -Class A											
31	Weight	kg	2.2											
32	Size (WxHxD)	mm	99 x 97 x 215 (Refer to Outline Drawing)											
33	Monitoring Signal	-	FAN ALM, PF (Open Collector output)											

*Read instruction manual carefully, before using the power supply unit.

=NOTES=

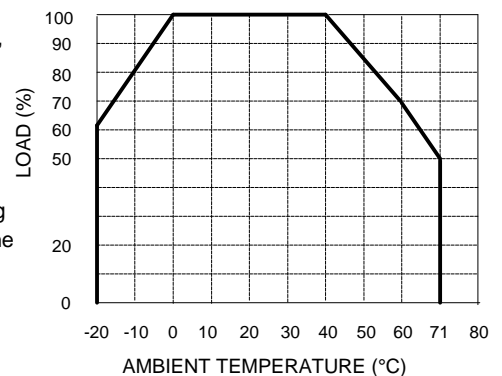
- *1. At 100V/200VAC and maximum output power.
- *2. For cases where conformance to various safety specs (UL, CSA, etc) are required, input voltage range will be 100 - 120 / 200 - 240VAC (50 / 60Hz).
- *3. First in-rush current .
- *4. From 85 ~ 132VAC or 170 ~ 265VAC, constant load.
- *5. From No load ~ Full load, constant input voltage.
- *6. Constant current limiting with automatic recovery. (The unit automatically shuts down the output when it is left for 30 seconds under the state that OCP is operating and the output voltage is less than PF detected level. The output recovers when the input voltage is turned on after brief turning off.)
- *7. Inverter shut-down method, manual reset. (OVP circuit will shut-down output)
- *8. At 100V/200VAC, nominal output voltage & maximum output current.
- *9. Ratings - For 5V model, refer to derating curve on the right.

For other Voltage models, refer to attached Derating Table.

- Load (%) is percent of maximum output power or maximum output current, whichever is greater.

- *10. Leacage current range used : Input - Chassis greater than 20mA
Input - Output greater than 20mA (ACG - FG open)
Output - Chassis greater than 100mA

DERATING CURVE (5V TYPE)
MOUNTING A



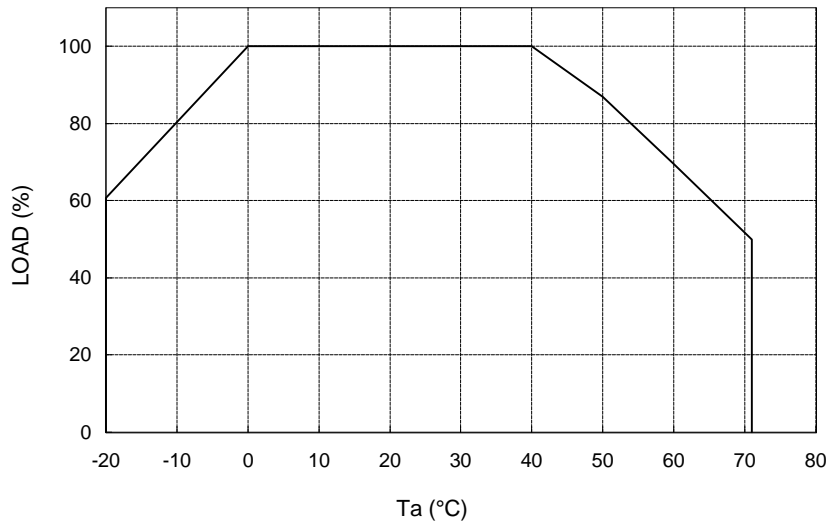
SR 230 OUTPUT DERATING

NEMIC-LAMBDA

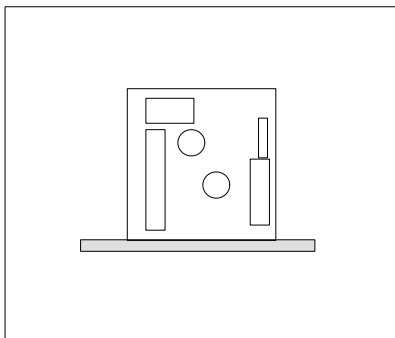
MOUNTING (A), (B), (C)

MODEL	Ta (°C)	Nominal Output Voltage	MAXIMUM OUTPUT CURRENT OR MAXIMUM OUTPUT POWER, WHICHEVER IS GREATER				
			-20°C	0 ~ 40°C	50°C	60°C	71°C
SR230-2	2V	2V	28A	46A	40A	32A	23A
			56W	92W	80W	64W	46W
SR230-5	5V	5V	28A	46A	40A	32A	23A
			140W	230W	200W	160W	115W
SR230-6	6V	6V	23A	38A	33A	26.5A	19A
			138W	228W	198W	159W	114W
SR230-9	9V	9V	15.5A	25.5A	22.5A	17.5A	13A
			139.5W	229.5W	202.5W	157.5W	117W
SR230-12	12V	12V	12A	19.5A	17A	13.5A	10A
			144W	234W	204W	162W	120W
SR230-15	15V	15V	9.5A	15.5A	13.5A	10.5A	8A
			142.5W	232.5W	202.5W	157.5W	120W
SR230-18	18V	18V	8A	13A	11.5A	9A	6.5A
			144W	234W	207W	162W	117W
SR230-20	20V	20V	7.5A	12A	10.5A	8.5A	6A
			150W	240W	210W	170W	120W
SR230-24	24V	24V	6A	10A	9A	7A	5A
			144W	240W	216W	168W	120W
SR230-28	28V	28V	5A	8.5A	7.5A	6A	4.3A
			140W	238W	210W	168W	120.4W
SR230-48	48V	48V	3A	5A	4.5A	3.5A	2.5A
			144W	240W	216W	168W	120W

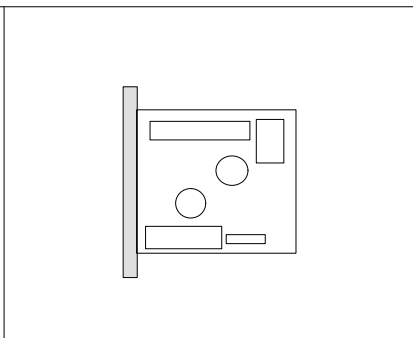
OUTPUT DERATING CURVE
MOUNTING : A, B, C (5V)



MOUNTING : A
(STANDARD MOUNTING)



MOUNTING : B



MOUNTING : C

