



► **Top Leader In Power Electronics**



► ► ► **48W PC-SD38 Series
LED Lighting Power Supply**

ISO-9001

**Switching Power Supply
Manufacturer**

www.power-con.com.tw

48W PC-SD38 Series LED Lighting Power Supply

Features

- ▶ Universal AC input / Full range up to 305Vac
- ▶ Built-in active PFC function, PF: 0.95 Typical
- ▶ Protections:
Short circuit / Over current / Over voltage / Over temperature (Optional)
- ▶ Cooling by free air convection
- ▶ IP67 design for indoor or outdoor installation (Optional)
- ▶ Class II power
- ▶ Optional dimming function (Below Table)
- ▶ Suitable for LED lighting
- ▶ Meet global lighting safety standard: UL8750 & IEC 61347
- ▶ 2 years warranty



CE SELV FC cUL^{us} CB IP67

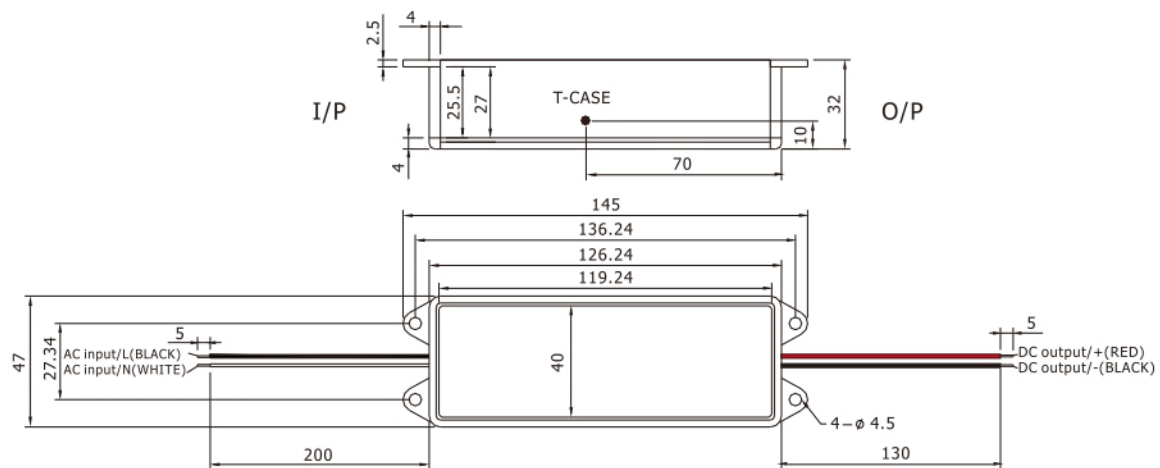
Input	Voltage rating	100~277Vac
	Voltage range	90~305Vac
	Frequency range	47~63Hz
	Power factor (Typ.)	0.95 @220Vac/50Hz, at max. load
	Inrush current (Typ.)	40A max. for 220Vac at max. load
Protection	Over current	Auto-recovery
	Short circuit	
	Over voltage	
Environment	Working temp.	-30°C~+50°C @ambient temperature (Ta)
Safety & EMC	Safety standards	UL8750, UL60950-1, EN61347-1, EN61347-2-13, IP67 (Optional)
	Withstand voltage	I/P to O/P : 3750Vac/1min. @less than 10mA leakage
	EMC emission	Compliance to EN55015, EN61000-3-2 Class C; EN61000-3-3
	EMC immunity	Compliance to EN61000-4-5 Level 4, Surge 4.5KV, EN61000-4-2,3,4,6,8,11; EN61547
Others	Dimming & control (optional)	1~10Vdc, 10V PWM, Resistance, Smart Count Time, Time Phase, Time Programmable, DALI, ZigBee
	MTBF	622,000 hours min. @MIL-HK8K-217F, Ta=25°C
	Life time	50,000 hours (11.4 years @ 12 hours/day)@ max. load, Ta=50°C 100, 000 hours (22.8 years @ 12 hours/day) @ max. load, Ta=40°C
	Warranty	2 years
	Dimension	145mmx47mmx32mm ※Tolerance ±0.4mm
	Weight	0.348~0.371KG

Max. Voltage & Max. Current:

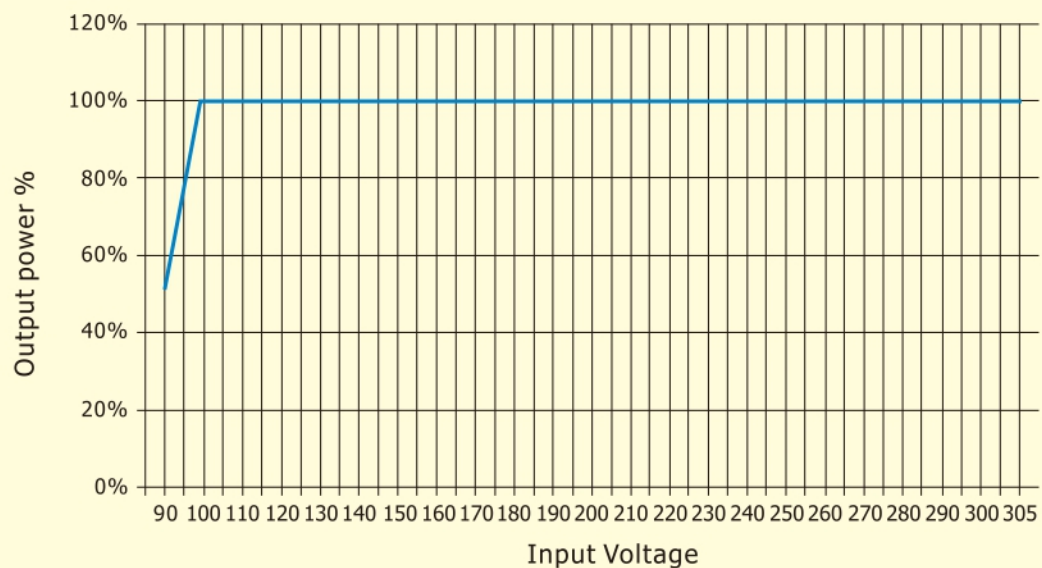
Series Models	Output Ratings			
	Min. Vo (dc)	Max. Vo (dc)	Max. Io (DC)	Max. Watts
PC-SD38-1XYDZ	6.3	9	3.30	29.7
PC-SD38- 2XYDZ	8.4	12	3.30	40
PC-SD38- 3XYDZ	10.5	15	2.67	40
PC-SD38- 4XYDZ	14	20	2.40	48
PC-SD38- 5XYDZ	16.8	24	2.00	48
PC-SD38- 6XYDZ	18.9	24	2.00	48
PC-SD38- 6XYZ	18.9	27	1.78	48
PC-SD38- 7XYDZ	25.2	36	1.33	48
PC-SD38- 8XYDZ	28.9	42	1.14	48
PC-SD38- AXYDZ	33	48	1.00	48
PC-SD38- BXYDZ	37.5	54	0.88	48

※ Mechanical Tolerance $\pm 0.4\text{mm}$

※ Wires Tolerance $\pm 10\text{mm}$



Power de-rating curve



Model	I/P (Vac)	Vo (Vdc)	Io ($\pm 3\%$)	Wo (Watts)	Efficiency @ max. load	Dimming Function
PC-SD38-6YB	100-150	18.9-24	0.425	10.2	82% typical@110Vac/50Hz	No
PC-SD38-6YK	100-150	18.9-24	0.85	20.4	85% typical@110Vac/50Hz	No
PC-SD38-6YQ	100-150	18.9-24	1.1	26.4	85% typical@110Vac/50Hz	No
PC-SD38-69R	100-150	18.9-24	1.125	27	85% typical@110Vac/50Hz	No
PC-SD38-65R	100-150	18.9-24	1.13	27.12	85% typical@110Vac/50Hz	No
PC-SD38-69T	100-150	18.9-24	1.275	30.6	85% typical@110Vac/50Hz	No
PC-SD38-6P	100-150	18.9-24	1.4	33.6	85% typical@110Vac/50Hz	No
PC-SD38-65Y	100-150	18.9-24	1.5	36	85% typical@110Vac/50Hz	No
PC-SD38-66Y	100-150	18.9-24	1.5	36	85% typical@110Vac/50Hz	No
PC-SD38-6Y3	100-150	18.9-24	1.7	40.8	85% typical@110Vac/50Hz	No
PC-SD38-5A	100-240	12-24	0.9	22	85% typical@220Vac/50Hz	No
PC-SD38-5D	100-240	16.8-24	0.7-1.25	30	85% typical@220Vac/50Hz	No
PC-SD38-8W9	100-277	33-38	0.35	13.3	82% typical@230Vac/50Hz	No
PC-SD38-6WH	100-277	18.9-24	0.75	18	83% typical@220Vac/50Hz	No
PC-SD38-6WK	100-277	18.9-24	0.85	20.4	84.5% typical@220Vac/50Hz	No
PC-SD38-7WF	100-277	27-33	0.65	21.45	82.5% typical@220Vac/50Hz	No
PC-SD38-7D2	100-277	27-33	0.65	21.45	82.5% typical@220Vac/50Hz	No
PC-SD38-4WY0P	100-277	14-20	1.2	24	85% typical@220Vac/50Hz	No
PC-SD38-7WK0P	100-277	26-30	0.85	25.5	86% typical@220Vac/50Hz	No
PC-SD38-5WT	100-277	18-21	1.25	27	87% typical@220Vac/50Hz	No
PC-SD38-6WR	100-277	18.9-24	1.125	27	84.5% typical@220Vac/50Hz	No
PC-SD38-7WM	100-277	28-31	0.96	29.76	86% typical@220Vac/50Hz	No
PC-SD38-6WT	100-277	18.9-24	1.275	30.6	84.5% typical@220Vac/50Hz	No
PC-SD38-6XT	100-277	18.9-24	1.275	30.6	85% typical@220Vac/50Hz	No
PC-SD38-6XT0P	100-277	18.9-24	1.275	30.6	85% typical@220Vac/50Hz	No
PC-SD38-7WN	100-277	27-31	1	31	86% typical@220Vac/50Hz	No
PC-SD38-7WF0P	100-277	27-31	1.05	32.55	85% typical@220Vac/50Hz	No
PC-SD38-8V2	100-277	33-37.5	0.88	33	86% typical@220Vac/50Hz	No
PC-SD38-6E2	100-277	18.9-24	1.4	33.6	85% typical@220Vac/50Hz	No
PC-SD38-8V1	100-277	33-37.5	0.92	34.5	86% typical@220Vac/50Hz	No
PC-SD38-8V1C	100-277	33-37.5	0.92	34.5	85% typical@220Vac/50Hz	C
PC-SD38-8V1G	100-277	33-37.5	0.92	34.5	88% typical@220Vac/50Hz	C
PC-SD38-6WY	100-277	18.9-24	1.5	36	84.5% typical@220Vac/50Hz	No
PC-SD38-7D3	100-277	27-31	1.2	37.2	86% typical@220Vac/50Hz	No
PC-SD38-4XWS2	100-277	19	2	38	85% typical@220Vac/50Hz	No
PC-SD38-6W2	100-277	18.9-24	1.65	39.6	85% typical@220Vac/50Hz	No
PC-SD38-B2L	100-277	50-58	0.7	40.6	84% typical@220Vac/50Hz	D
PC-SD38-B2S	100-277	58	0.7	40.6	87% typical@220Vac/50Hz	S
PC-SD38-6W3	100-277	18.9-24	1.7	40.8	84.5% typical@220Vac/50Hz	No
PC-SD38-4WP	100-277	14-20	2.1	42	85% typical@220Vac/50Hz	No

C: 1-10V S: Smart Count Time D: DALI (Optional dimming function: 10V PWM, Resistance, Time Phase, Time Programmable, ZigBee)

Model	I/P (Vac)	Vo (Vdc)	Io ($\pm 3\%$)	Wo (Watts)	Efficiency @ max. load	Dimming Function
PC-SD38-7WU	100-277	27-33	1.3	42.9	85% typical@220Vac/50Hz	No
PC-SD38-8WUC	100-277	33-37.5	1.28	48	87% typical@220Vac/50Hz	C
PC-SD38-8WUG	100-277	33-37.5	1.28	48	87% typical@220Vac/50Hz	C
PC-SD38-6X9	200-277	18.9-24	0.375	9	82% typical@220Vac/50Hz	No
PC-SD38-6X9C	200-277	18.9-24	0.375	9	74% typical@220Vac/50Hz	C
PC-SD38-6R	200-277	18.9-25	0.4	10	82% typical@220Vac/50Hz	No
PC-SD38-6XB	200-277	18.9-24	0.425	10.2	82% typical@220Vac/50Hz	No
PC-SD38-6XD	200-277	18.9-24	0.57	13.68	82% typical@220Vac/50Hz	No
PC-SD38-6XH	200-277	18.9-24	0.75	18	85% typical@220Vac/50Hz	No
PC-SD38-6XHC	200-277	18.9-24	0.75	18	80% typical@220Vac/50Hz	C
PC-SD38-6Q	200-277	18.9-25	0.8	20	85% typical@220Vac/50Hz	No
PC-SD38-6XK	200-277	18.9-24	0.85	20.4	85% typical@220Vac/50Hz	No
PC-SD38-6XM	200-277	18.9-24	0.95	22.8	85% typical@220Vac/50Hz	No
PC-SD38-6XMC	200-277	18.9-24	0.95	22.8	82% typical@220Vac/50Hz	C
PC-SD38-6NC	200-277	18.9-24	1	24	84% typical@220Vac/50Hz	C
PC-SD38-6F	200-277	18.9-24	1.1	26.4	85% typical@220Vac/50Hz	No
PC-SD38-6FC	200-277	18.9-24	1.1	26.4	82% typical@220Vac/50Hz	C
PC-SD38-6FS	200-277	18.9-24	1.1	26.4	85% typical@220Vac/50Hz	S
PC-SD38-68R	200-277	18.9-24	1.125	27	85% typical@220Vac/50Hz	No
PC-SD38-63R	200-277	18.9-24	1.13	27.12	85% typical@220Vac/50Hz	No
PC-SD38-68T	200-277	18.9-24	1.275	30.6	85% typical@220Vac/50Hz	No
PC-SD38-6E	200-277	18.9-24	1.4	33.6	85% typical@220Vac/50Hz	No
PC-SD38-6E1	200-277	18.9-24	1.4	33.6	85% typical@220Vac/50Hz	No
PC-SD38-6EC	200-277	18.9-24	1.4	33.6	85% typical@220Vac/50Hz	C
PC-SD38-63Y	200-277	18.9-24	1.5	36	85% typical@220Vac/50Hz	No
PC-SD38-64Y	200-277	18.9-24	1.5	36	85% typical@220Vac/50Hz	No
PC-SD38-63YC	200-277	18.9-24	1.5	36	85% typical@220Vac/50Hz	C
PC-SD38-64YC	200-277	18.9-24	1.5	36	85% typical@220Vac/50Hz	C
PC-SD38-63YS	200-277	18.9-24	1.5	36	85% typical@220Vac/50Hz	S
PC-SD38-7F	200-277	30-34	1.1	37.4	86% typical@220Vac/50Hz	No
PC-SD38-7J1	200-277	27-31	1.25	38.75	86% typical@220Vac/50Hz	No
PC-SD38-633	200-277	18.9-24	1.7	40.8	85% typical@220Vac/50Hz	No
PC-SD38-643	200-277	18.9-24	1.7	40.8	85% typical@220Vac/50Hz	No
PC-SD38-643C	200-277	18.9-24	1.7	40.8	85% typical@220Vac/50Hz	C
PC-SD38-6X3	200-277	18.9-24	1.7	40.8	85% typical@220Vac/50Hz	No
PC-SD38-6K	200-277	18.9-27	1.6	43.2	85% typical@220Vac/50Hz	No
PC-SD38-637	200-277	18.9-24	1.9	45.6	85% typical@220Vac/50Hz	No
PC-SD38-637C	200-277	18.9-24	1.9	45.6	85% typical@220Vac/50Hz	C
PC-SD38-8XTC	200-277	33-37.5	1.28	48	85% typical@230Vac/50Hz	C
PC-SD38-7D1	90-277	27-31	1.25	38.75	86% typical@220Vac/50Hz	No

C: 1-10V S: Smart Count Time D: DALI (Optional dimming function: 10V PWM, Resistance, Time Phase, Time Programmable, ZigBee)



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