S.M.P.S

LED Converter

Water Proof Converter

200W2LF Series

200W single output with constant voltage circuit



- Constant voltage design(C.V. mode)
- AC Input voltage 180-264V
 Protections:

Over load /Short circuit/Over temperature

- IP68 design for outdoor installations
- 100% full load burn-in test
- Suitable for LED lighting and moving sign applications

Metal case

- Safety standards : EN61347-1,EN61347-2-13
- EMC standards : EN55022, EN61204-3, EN61000-3-2, 3
- 3years warranty



AC180~264V 47~63Hz 91% 2.3A/220VAC 2.3A/220VAC 2.3A/220VAC 2.3A/220VAC 2.3A/220VAC 2.3A/220VAC 2.3A/220VAC 2.3A/220VAC 12V 16.6A 200W 800mVp-p ±3% ±1% ±2% 200ms/220VAC at full load 220VAC at full load			
47~63Hz 91% 2.3A/220VAC 2.3A/220VAC 2.3A/220VAC 2.3A/220VAC 2.3A/220VAC 2.3A/220VAC 2.3A/220VAC 12V 16.6A 200W 800mVp-p ±3% ±1% ±2% 200ms/220VAC at full load 220VAC at full load 22	ITEM		UP200S12W2LF
91% 2.3A/220VAC 2 START 45A/220VAC 2 START 45A/220VAC 2 20VAC 12V 16.6A 200W 800mVp-p ±3% ±1% ±2% 10ms/220VAC at full load 220VAC at full load 2000 (2000	INPUT	VOLTAGE RANGE	AC180~264V
2.3A/220VAC 2.3A/220VAC 2.3A/220VAC 2.2mA / 220VAC 12V 16.6A 200W 800mVp-p ±3% ±1% ±2% 200ms/220VAC at full load 220VAC at full load 2000 2000 (0000 models) 2000 (0000 models		FREQUENCY RANGE	47~63Hz
sTART 45A/220VAC 20MA / 220VAC 12V 16.6A 200W 800mVp-p ±3% ±1% ±2% 10ms/220VAC at full load 220VAC at full load 220VAC at full load comatically after fault condition is removed automatically after fault condition is removed automatically after fault condition is removed P-F.G:AC1.5KV, O/P-F.G:AC0.5KV 500V 100Mohms(At room temp. & humid.) o "DERATING CURVE"),20~95%RH ~+75°C,10~95%RH s, period for 72min. each along X, Y, Z axes		EFFICIENCY(typ.)	91%
22mA / 220VAC 12V 16.6A 200W 800mVp-p ±3% ±1% ±2% 200VAC at full load 220VAC at full load 220VAC at full load omatically after fault condition is removed automatically after fault condition is removed 2F.G:AC1.5KV, O/P-F.G:AC0.5KV 500V 100Mohms(At room temp. & humid.) o "DERATING CURVE"),20~95%RH ~+75°C,10~95%RH e, period for 72min. each along X, Y, Z axes		AC CURRENT(typ.)	2.3A/220VAC
12V 16.6A 200W 800mVp-p ±3% ±1% ±2% 200ms/220VAC at full load 220VAC at full load 220VAC at full load comatically after fault condition is removed automatically after fault condition is removed automatically after fault condition is removed 2-F.G:AC1.5KV, O/P-F.G:AC0.5KV 500V 100Mohms(At room temp. & humid.) o "DERATING CURVE"),20~95%RH ~+75°C,10~95%RH a, period for 72min. each along X, Y, Z axes		INRUSH CURRENT(typ.)	COLD START 45A/220VAC
16.6A 200W 800mVp-p ±3% ±1% ±2% 10ms/220VAC at full load 220VAC at full load 220VAC at full load comatically after fault condition is removed automatically after fault condition is removed P-F.G:AC1.5KV, O/P-F.G:AC0.5KV 500V 100Mohms(At room temp. & humid.) to "DERATING CURVE"),20~95%RH ~+75°C,10~95%RH a, period for 72min. each along X, Y, Z axes		LEAKAGE CURRENT	<2mA / 220VAC
200W 800mVp-p ±3% ±1% ±2% 200ms/220VAC at full load 220VAC at full load 220VAC at full load comatically after fault condition is removed automatically after fault condition is removed 2-F.G:AC1.5KV, O/P-F.G:AC0.5KV 2:500V 100Mohms(At room temp. & humid.) co "DERATING CURVE"),20~95%RH ~+75°C,10~95%RH c, period for 72min. each along X, Y, Z axes	OUTPUT	DC VOLTAGE	12V
800mVp-p ±3% ±1% ±2% 00ms/220VAC at full load 220VAC at full load 220VAC at full load omatically after fault condition is removed automatically after fault condition is removed automatically after fault condition is removed P-F.G:AC1.5KV, O/P-F.G:AC0.5KV 500V 100Mohms(At room temp. & humid.) o "DERATING CURVE"),20~95%RH ~+75°C,10~95%RH a, period for 72min. each along X, Y, Z axes		RATED CURRENT	16.6A
±3% ±1% ±2% 00ms/220VAC at full load 220VAC at full load 220VAC at full load comatically after fault condition is removed automatically after fault condition is removed 2-F.G:AC1.5KV, O/P-F.G:AC0.5KV 500V 100Mohms(At room temp. & humid.) o "DERATING CURVE"),20~95%RH ~+75°C,10~95%RH c, period for 72min. each along X, Y, Z axes		RATED POWER	200W
±1% ±2% Doms/220VAC at full load 220VAC at full load comatically after fault condition is removed automatically after fault condition is removed automatically after fault condition is removed P-F.G:AC1.5KV, O/P-F.G:AC0.5KV 500V 100Mohms(At room temp. & humid.) to "DERATING CURVE"),20~95%RH ~+75°C,10~95%RH period for 72min. each along X, Y, Z axes		RIPPLE&NOISE(max.) Note2	800mVp-p
±2% 10ms/220VAC at full load 220VAC at full load 220VAC at full load comatically after fault condition is removed automatically after fault condition is removed 2-F.G:AC1.5KV, O/P-F.G:AC0.5KV 500V 100Mohms(At room temp. & humid.) to "DERATING CURVE"),20~95%RH ~+75°C,10~95%RH a, period for 72min. each along X, Y, Z axes		VOLTAGE TOLERANCE Note3	±3%
220VAC at full load 220VAC at full load 220VAC at full load automatically after fault condition is removed ally after fault condition is removed 2-F.G:AC1.5KV, O/P-F.G:AC0.5KV 500V 100Mohms(At room temp. & humid.) 0 "DERATING CURVE"),20~95%RH ~+75°C,10~95%RH e, period for 72min. each along X, Y, Z axes		LINE REGULATION Note4	±1%
220VAC at full load omatically after fault condition is removed automatically after fault condition is removed ally after fault condition is removed P-F.G:AC1.5KV, O/P-F.G:AC0.5KV 500V 100Mohms(At room temp. & humid.) o "DERATING CURVE"),20~95%RH ~+75°C,10~95%RH e, period for 72min. each along X, Y, Z axes		LOAD REGULATION Note5	±2%
omatically after fault condition is removed automatically after fault condition is removed P-F.G:AC1.5KV, O/P-F.G:AC0.5KV 500V 100Mohms(At room temp. & humid.) o "DERATING CURVE"),20~95%RH ~+75°C,10~95%RH e, period for 72min. each along X, Y, Z axes		SETUP,RISE TIME(max.)	3000ms,100ms/220VAC at full load
automatically after fault condition is removed ally after fault condition is removed P-F.G:AC1.5KV, O/P-F.G:AC0.5KV 5500V 100Mohms(At room temp. & humid.) o "DERATING CURVE"),20~95%RH ~+75°C,10~95%RH e, period for 72min. each along X, Y, Z axes		HOLD UP TIME(typ.)	5ms/220VAC at full load
ally after fault condition is removed P-F.G:AC1.5KV, O/P-F.G:AC0.5KV 500V 100Mohms(At room temp. & humid.) o "DERATING CURVE"),20~95%RH ~+75°C,10~95%RH e, period for 72min. each along X, Y, Z axes	PROTEC -TION	SHORT CIRCUIT	Hiccup mode ; recovers automatically after fault condition is removed
-F.G:AC1.5KV, O/P-F.G:AC0.5KV 500V 100Mohms(At room temp. & humid.) o "DERATING CURVE"),20~95%RH ~+75°C,10~95%RH e, period for 72min. each along X, Y, Z axes		OVER LOAD	Over 110% of rating ; recovers automatically after fault condition is removed
500V 100Mohms(At room temp. & humid.) o "DERATING CURVE"),20~95%RH ~+75°C,10~95%RH e, period for 72min. each along X, Y, Z axes		OVER TEMPERATURE	recovers automatically after fault condition is removed
o "DERATING CURVE"),20~95%RH ~+75°C,10~95%RH , period for 72min. each along X, Y, Z axes	ISOLA -TION	WITHSTAND VOLTAGE	I/P-O/P:AC3KV, I/P-F.G:AC1.5KV, O/P-F.G:AC0.5KV
~+75°C,10~95%RH , period for 72min. each along X, Y, Z axes		ISOLATION RESISTANCE	I/P-O/P, I/P-F.G, O/P-F.G:DC500V 100Mohms(At room temp. & humid.)
, period for 72min. each along X, Y, Z axes	ENVIRON -MENT	WORKING TEMP.&HUMID.	-40~+70°C (Refer to "DERATING CURVE"),20~95%RH
		STORAGE TEMP.&HUMID.	-40~+75 °C ,10~95%RH
*37.1mm(L*W*H)/0.69kg		VIBRATION	10~500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes
	OTHERS	DIMENSION/WEIGHT	192.3*61.5*37.1mm(L*W*H)/0.69kg
wisted pare-wire terminated with 0.1 u	OTHERS	DIMENSION/WEIGHT 1. All parameters not specially 2. Ripple & noise are measured parallel capacitor.	

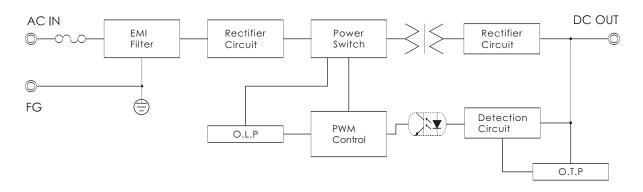
5. Load regulation is measured from low 0% to 100% rated load.

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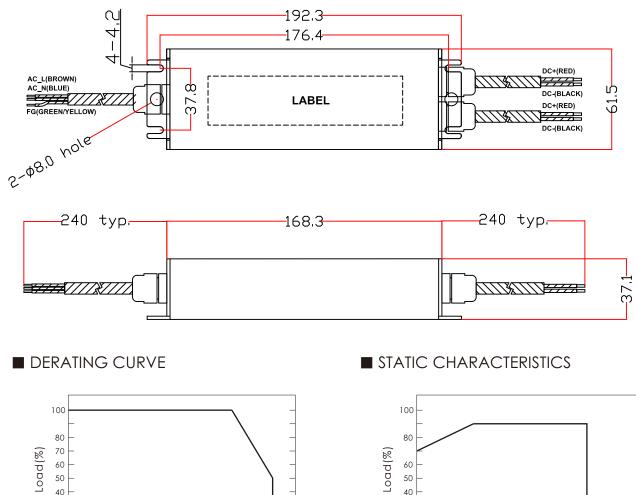
LED Converter

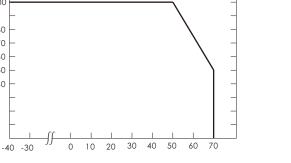
Water Proof Converter

BLOCK DIAGRAM



■ DIMENSIONS(unit:mm)



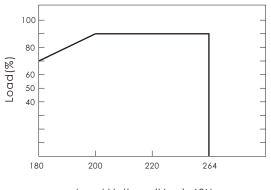


Ambient Temperature (°C)

60

50

40



Input Voltage(Vac), 60Hz