

3 x 5 x 1.5" AC-DC Open Frame

RP213F11-xx Series

I.T.E. Power Supply

Single Output

200 / 300W L Bracket Type

Features:

- ◆ High Density, High Efficiency > 90%
- ◆ Mini. Size, Low Profile 3" x 5" x 1.5"
- ◆ Low Leakage Current < 750uA @ 230Vac
- ◆ Safety Compliant With UL60950
- ◆ OCP , OVP , OTP Protection
- ◆ High Power 200W With Convection Cooling
- ◆ High Power 300W max. With a 20CFM Airflow

Application:

- POE , POS , LCD TV
- Industrial Equipment
- Gaming Machine

Safety Certified:



SPECIFICATION

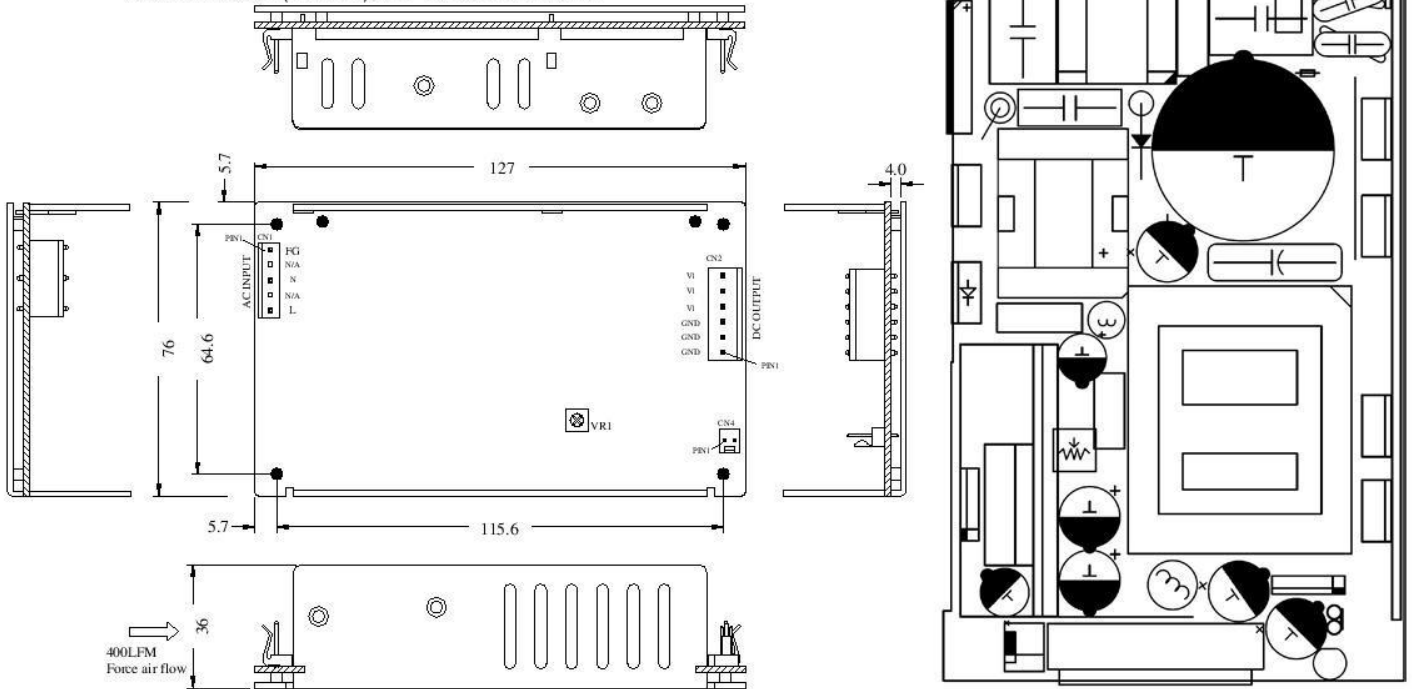
MODEL	RP213F11-12	RP213F11-24	RP213F11-36	RP213F11-48	RP213F11-55	
INPUT	VOLTAGE RANGE <small>Note 1.</small> Universal Input 90 ~ 264Vac					
	FREQUENCY RANGE 47 ~ 63Hz					
	AC CURRENT (Typ.) 4.5A/115Vac , 2.0A/230Vac					
	INRUSH CURRENT (Typ.) 50A/115Vac , 100A/230Vac half cycle cold start					
	POWER FACTOR (Typ.) PF > 0.95 / 230Vac , PF > 0.99 / 115Vac at full load					
	EFFICIENCY (Typ.)	90%	91%	91%	92%	92%
	LEAKAGE CURRENT Earth leakage current < 750uA/230Vac					
OUTPUT	DC VOLTAGE	V1 : 12V	V1 : 24V	V1 : 36V	V1 : 48V	V1 : 55V
	RATED CURRENT <small>Note 2.</small>	16.6A/(25A)	8.3A/(12.5A)	5.5A/(8.3A)	4.25A(6.2A)	3.6A(5.5A)
	CURRENT RANGE	0 ~ 16.6A/(25A)	0 ~ 8.3A/(12.5A)	0 ~ 5.5A/(8.3A)	0 ~ 4.25A(6.2A)	0 ~ 3.6A(5.5A)
	RATED POWER <small>Note 2.</small>	200W/(300W)	200W/(300W)	200W/(300W)	200W/(300W)	200W/(300W)
	RIPPLE & NOISE (max.)	120mVp-p	240mVp-p	360mVp-p	480mVp-p	550mVp-p
	VOLTAGE ADJ. RANGE	± 2%	± 2%	± 2%	± 2%	± 2%
	VOLTAGE REGULATION	± 3%	± 3%	± 3%	± 3%	± 3%
	SETUP , RISE TIME	≤ 1000mS,20mS	≤ 1000mS,20mS	≤ 1000mS,20mS	≤ 1000mS,20mS	≤ 1000mS,20mS
	HOLD UP TIME (Typ.)	≥ 17mS @ 115V	≥ 17mS @ 115V	≥ 17mS @ 115V	≥ 17mS @ 115V	≥ 17mS @ 115V
PROTEC-TION	OVER LOAD	110 ~ 150%	110 ~ 150%	110 ~ 150%	110 ~ 150%	110 ~ 150%
	OVER VOLTAGE	13.2 ~ 15.6V	26.4 ~ 31.2V	39.6 ~ 44.1V	52.8 ~ 58.8V	58 ~ 63V
	OVER TEMPERATURE	Shut down O/P voltage, recovers automatically after temperature goes down.				
FUNCTION	12Vaux For External Fan	Optional				
	DC OK SIGNAL					
	REMOTE CONTROL					
ENVIRON-MENT	WORKING TEMP.,HUMIDITY	-20 ~ +70°C(Refer to "Derating Curve A1") , 10 ~ 85%RH non-condensing				<small>Note 3.</small>
	STORAGE TEMP.,HUMIDITY	-40 ~ +85°C , 5 ~ 95%RH non-condensing				
	TEMP. COEFFICIENT	± 0.03% /°C (0 ~ 50°C)				
	VIBRATION	5 ~ 500Hz, 2Grms, 20 minute for each X, Y, Z axis.				
SAFETY & EMC	SAFETY STANDARDS	UL 60950-1 2nd , EN 60950-1				
	WITHSTAND VOLTAGE	I/P - O/P: 1,500Vac , I/P - F.G:1,500Vac				
	EMC EMISSION <small>Note 4.</small>	Compliance to EN55022(CISPR22) Class B, FCC part 15 Class B, EN61000-3-2,3				
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11				
OTHERS	MTBF	100K hrs min. MIL-HDBK-217F (25°C)				
	DIMENSION	127 x 76.2 x 38.1mm(L x W x H)				
	PACKING	.333Kg / pcs , 30pcs / CTN , GW: 11.0Kg , Carton(L x W x H): 480 x 240 x 190mm				
NOTE	1. Derating may be needed under low input voltages. Please check the derating curve A2 for more details. 2. This power supply rated power is 300W with 20CFM airflow and need to derating to 200W with convection cooling. 3. Derating may be needed under high ambient temperature. Please check the derating curve A1 for more details. 4. The SPS is considered a component which will be installed into final equipment. The equipment must be re-confirmed that it still meets EMC directives. 5. All parameters NOT specially mentioned are measured at rated input, rated load and 25°C of ambient temperature.					

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Typical Mechanical Drawing :

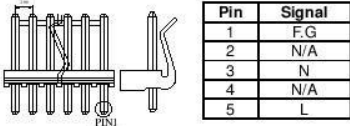
RP213F11-XX For Output Connector (CN2) – 6PIN

Case dimension (L*W*H): 127*76*36 mm ±0.5mm



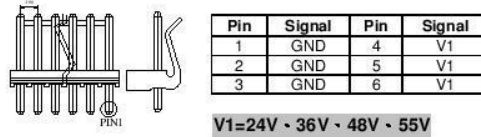
Input Connector (CN1) :

MOLEX 09-65-2058 (5273 SERIES) or equivalent
Mates with (MOLEX 5239) or equivalent



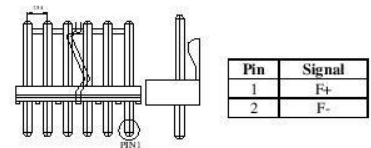
Output Connector (CN2) – 6PIN:

MOLEX 09-65-2068 (5273 SERIES) or equivalent
Mates with (MOLEX 5239) or equivalent

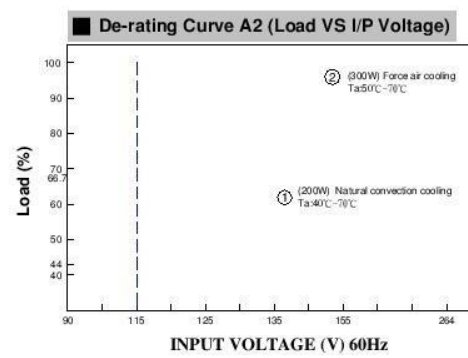
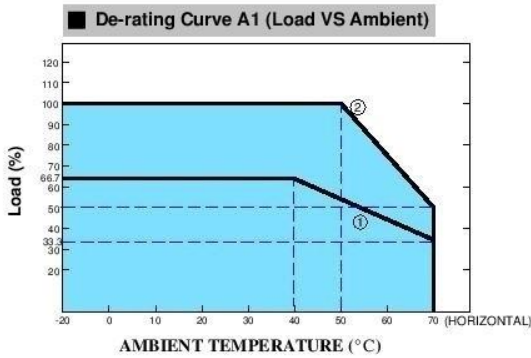


Connector (CN4) :Optional(For Fan)

MOLEX 22-23-2021 (6373 SERIES) or EQU
Mates with (MOLEX 2695) or EQU

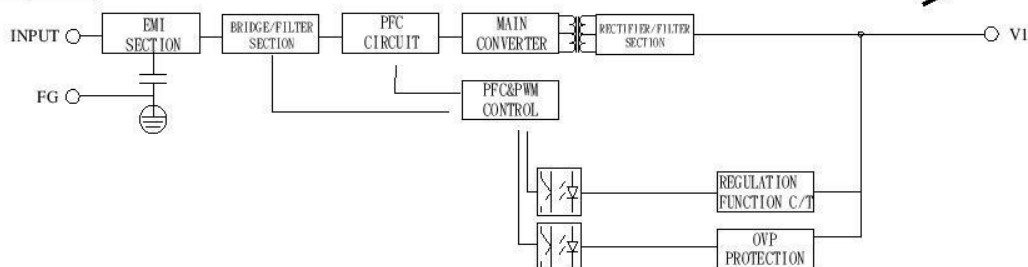


De-rating Curve



Note: ① Convection (Temperature derating) [1.6% / degree 40°C to 70°C]
② Fan air (400LFM) [2.5% / degree 50°C to 70°C]

Block Diagram:



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Single Output

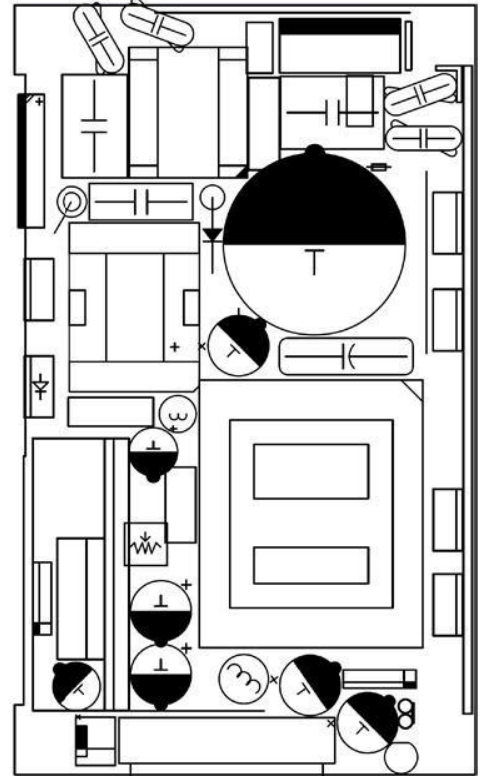
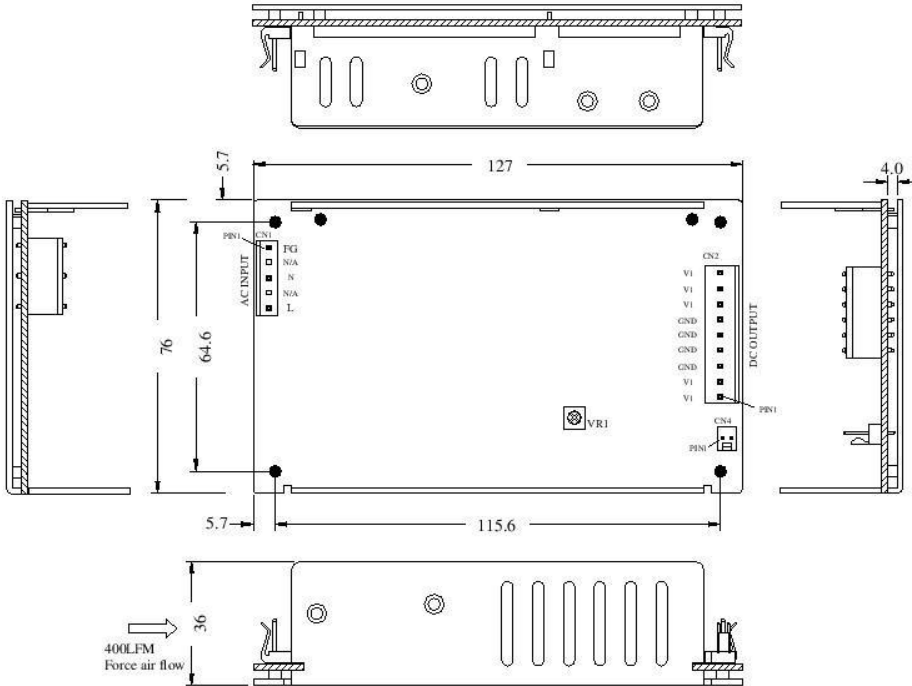
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Typical Mechanical Drawing :

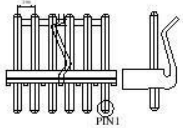
RP213F11-XX For Output Connector (CN2) – 9PIN

Case dimension (L*W*H): 127*76*36 mm ±0.5mm



Input Connector (CN1) :

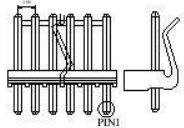
MOLEX 09-65-2058 (5273 SERIES) or equivalent
Mates with (MOLEX 5239) or equivalent



Pin	Signal
1	F.G
2	N/A
3	N
4	N/A
5	L

Output Connector (CN2) – 9PIN:

MOLEX 09-65-2098 (5273 SERIES) or equivalent
Mates with (MOLEX 5239) or equivalent

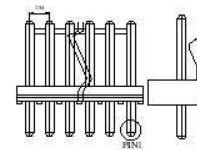


Pin	Signal	Pin	Signal
1	V1	6	GND
2	V1	7	V1
3	GND	8	V1
4	GND	9	V1
5	GND		

V1=12V · 24V · 36V · 48V · 55V

Connector (CN4) :Optional(For Fan)

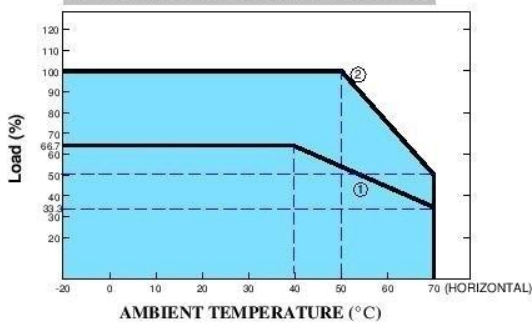
MOLEX 22-23-2021 (6373 SERIES) or EQU)
Mates with (MOLEX 2695) or EQU



Pin	Signal
1	F+
2	F-

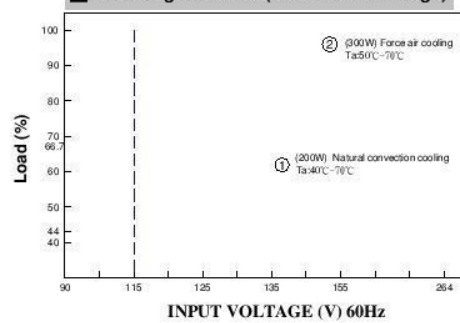
De-rating Curve

■ De-rating Curve A1 (Load VS Ambient)

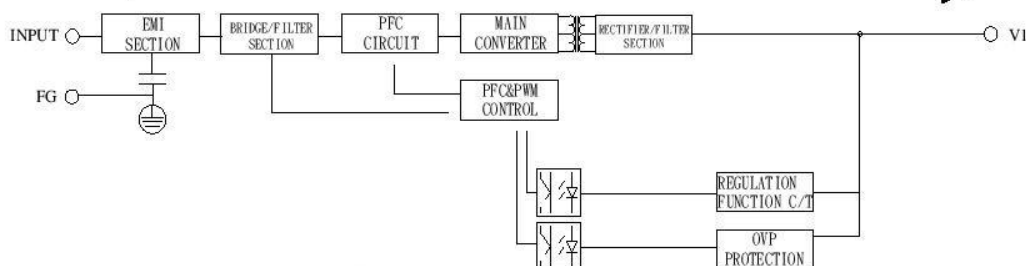


Note: ① Convection (Temperature derating) [1.6% / degree 40°C to 70°C]
② Fan air (400LFM) [2.5% / degree 50°C to 70°C]

■ De-rating Curve A2 (Load VS I/P Voltage)



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