

Features:

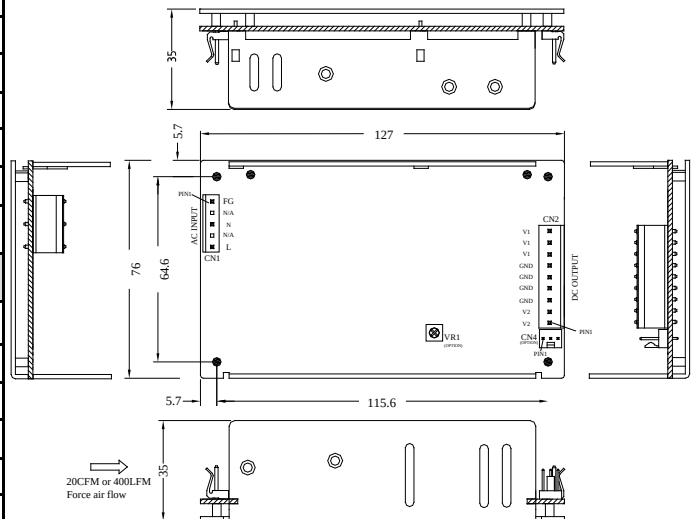
- ◆ High Density, High Efficiency > 90%
- ◆ Mini. Size, Low Profile 3" x 5" x 1.5"
- ◆ Low Leakage Current < 750uA @ 230Vac
- ◆ Safety Compliant With UL60950
- ◆ 12Vaux For External Fan Cooling(Optional)
- ◆ OCP , OVP , OTP Protection
- ◆ High Power 200W/Convection , 300W/20CFM Air

Application:

POE , POS , LCD TV
Industrial Equipment
Gaming Machine

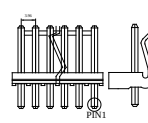
Safety Certified:**Typical Mechanical Drawing :**

WP213F12-4805 (Connector code→AA)
Case dimension (L*W*H): 127*76*35 mm

**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

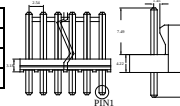
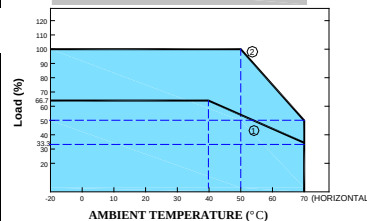
Pin	Signal	Pin	Signal
1	V2	6	GND
2	V2	7	V1
3	GND	8	V1
4	GND	9	V1
5	GND		

V1=48V
V2=5V

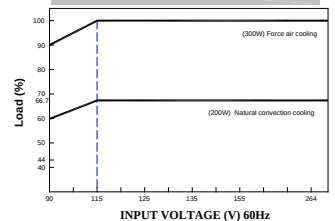
Connector (CN4) :Optional(For Fan)

MOLEX 22-23-2031 (6373 SERIES) or EQU
Mates with (MOLEX 2695) or EQU

Pin	Signal
1	F+
2	F-
3	V2s+

**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)

INPUT SPECIFICATIONS	
INPUT VOLTAGE	Universal Input : 90 ~ 264Vac
INPUT FREQUENCY	47 ~ 63Hz
INPUT CURRENT	4.5A/115Vac , 2.0A/230Vac
INRUSH CURRENT (Typ.)	100A/230Vac half cycle cold start
POWER FACTOR (Typ.)	PF > 0.95 /full load
EFFICIENCY (Typ.)	90%
LEAKAGE CURRENT	Leakage current < 750uA/230Vac

OUTPUT SPECIFICATIONS		
VOLTAGE	V1 = +48V	V2 = +5V
RATED LOAD(Convection)	0 ~ 4.16A	0 ~ 2.5A
Max. LOAD(W/20CFM Airflow or Fan)	6.25A	5A
RIPPLE & NOISE	480mV	50mV
REGULATION	±3%	±3%
Max. POWER	200W / 300W	

PROTECTION SPECIFICATIONS	
OCP: (Over Load Protection)	150 ~ 200%
OVP: (Over Voltage Protection)	52.8 ~ 58.8V 110 ~ 130%
OTP: (Over Temp. Protection)	Shut down O/P voltage

GENERAL SPECIFICATIONS	
HOLD UP TIME (Typ.)	≥16mS @ 115V
REMOTE CONTROL	N/A
DC OK SIGNAL	Led.
12Vaux For External Fan	F12-NF w/o 12Vaux, F12-VF with 12Vaux. @ 1A
COOLING	Convection/200W, 20CFM for 300W

SAFETY & ENVIRONMENTAL SPECIFICATIONS	
SAFETY APPROVALS REQUIRED :	UL , cUL , CE , FCC , CB
SAFETY STANDARDS	UL 60950-1 2nd , EN 60950-1
EMC EMISSION	EN55022(CISPR22) & FCC Class B.
OPERATING AMBIENT TEMP.	-20 ~ 70°C