

Features:

- ◆ High Density, High Efficiency > 90%
- ◆ Mini. Size, Low Profile 5" x 3" x 1.5"
- ◆ Low Leakage Current < 750uA @ 230Vac
- ◆ Safety Compliant With UL62368-1
- ◆ 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:

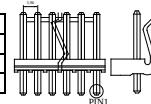


INPUT SPECIFICATIONS	
INPUT VOLTAGE	Universal Input : 90 ~ 264Vac
INPUT FREQUENCY	47 ~ 63Hz
INPUT CURRENT	4.9A/115Vac , 2.5A/230Vac
INRUSH CURRENT (Typ.)	100A/230Vac half cycle cold start
POWER FACTOR (Typ.)	PF > 0.95 / full load
EFFICIENCY (Typ.)	90%
LEAKAGE CURRENT	Leakage current < 750uA/230Vac

Input Connector (CN1) :

MOLEX 09-65-2038 (5273 SERIES) or equivalent
Mates with (MOLEX 5239) or equivalent

Pin	Signal
1	N
2	N/A
3	L

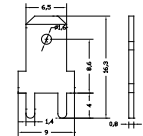


Input

Connector(CN3) : (Optional)

Safety ground pin→Quick Disconnect TAB, 6.35[0.250] X 0.81[0.032] (Molex(19705-4301)or Equ).

The safety ground connection is provided by the Quick Disconnect TAB near CN1.

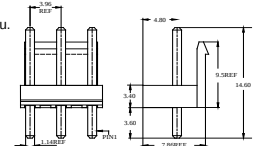


Output Connector (CN2) –8PIN:

JST B*P-VH Series or TKP PVHI-XX Series or Equ.
Mates with JST VHR-*N Series or TKP HVH-XX Series or Equ.

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

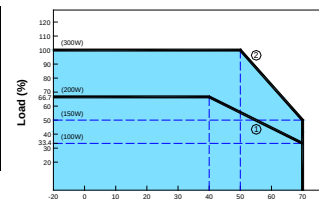
V1=24V



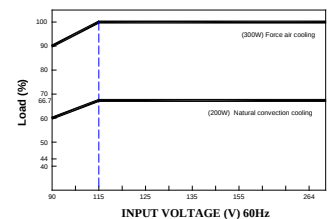
OUTPUT SPECIFICATIONS	
VOLTAGE	+24V
RATED LOAD(Convection)	0 ~ 8.3A
Max. LOAD(W/20CFM Airflow or Fan)	12.5A
RIPPLE & NOISE (note 1)	240mV
REGULATION	±3%
Max. POWER	200W / 300W

De-rating Curve

■ De-rating Curve A1 (Load VS Ambient)



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

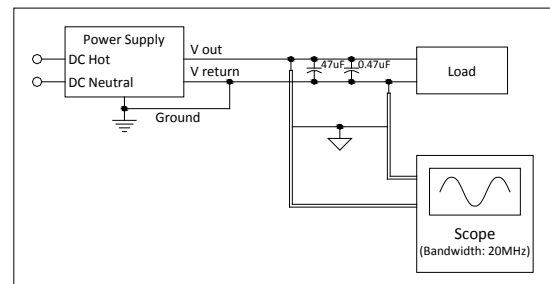


Note: ① Convection (Temperature derating) [-3.33W / degree 40°C to 70°C]
② Fan air (400LFM) [-7.5W / degree 50°C to 70°C]

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

GENERAL SPECIFICATIONS	
HOLD UP TIME (Typ.)	≥16mS @ 200W
REMOTE CONTROL	N/A
DC OK SIGNAL	Led.
12Vaux For External Fan (Optional)	N/A
COOLING	Convection/200W, 20CFM for 300W

Ripple& Noise Voltage Test Circuit



Note 1: The ripple noise voltage of the output shall be measured at end of the output pins connector of the length 100 mm output wire cable. Ripple and noise are measured at the connectors with a 0.47uF ceramic capacitor and a 47uF electrolytic capacitor to simulate system loading. (Please reference Ripple& Noise Voltage Test Circuit).

SAFETY & ENVIRONMENTAL SPECIFICATIONS	
SAFETY APPROVALS REQUIRED	UL , cUL , CE , FCC , CB
SAFETY STANDARDS	UL 60950-1 2nd , IEC 62368-1:2014
EMC EMISSION (note 2)	EN55032(CISPR22) & FCC Class B.
OPERATING AMBIENT TEMP.	-20 ~ 70°C

Note 2: Suggested external input filter in order to meet class B in EN55032(CISPR22) and FCC Class B.

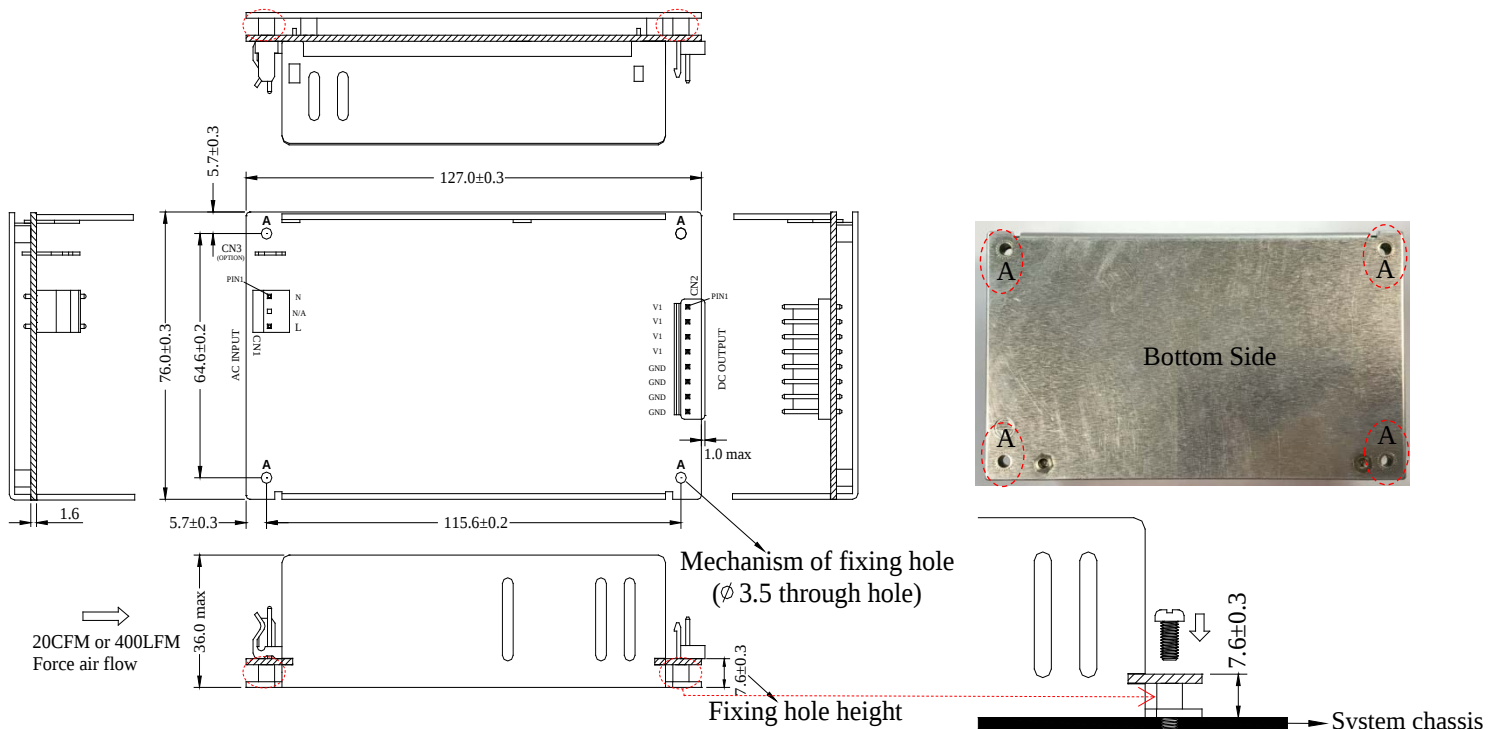
- Between system AC Inlet and power Vac-connect CN1 addition a 2~4 turns EMI common choke, that spec. is (L+N+FG) 3 wire together 2~4 turns insert with K5B RC 25x12x15-M clamp EMI core or equ. .
- System with external EMI Filter on Vac input: Filter Type (15GEEG3E-R or equ)---Manufactory (Delta)

Mechanism of Fixing hole code : P → P00, P01, P02, P03**

Typical Mechanical Drawing :

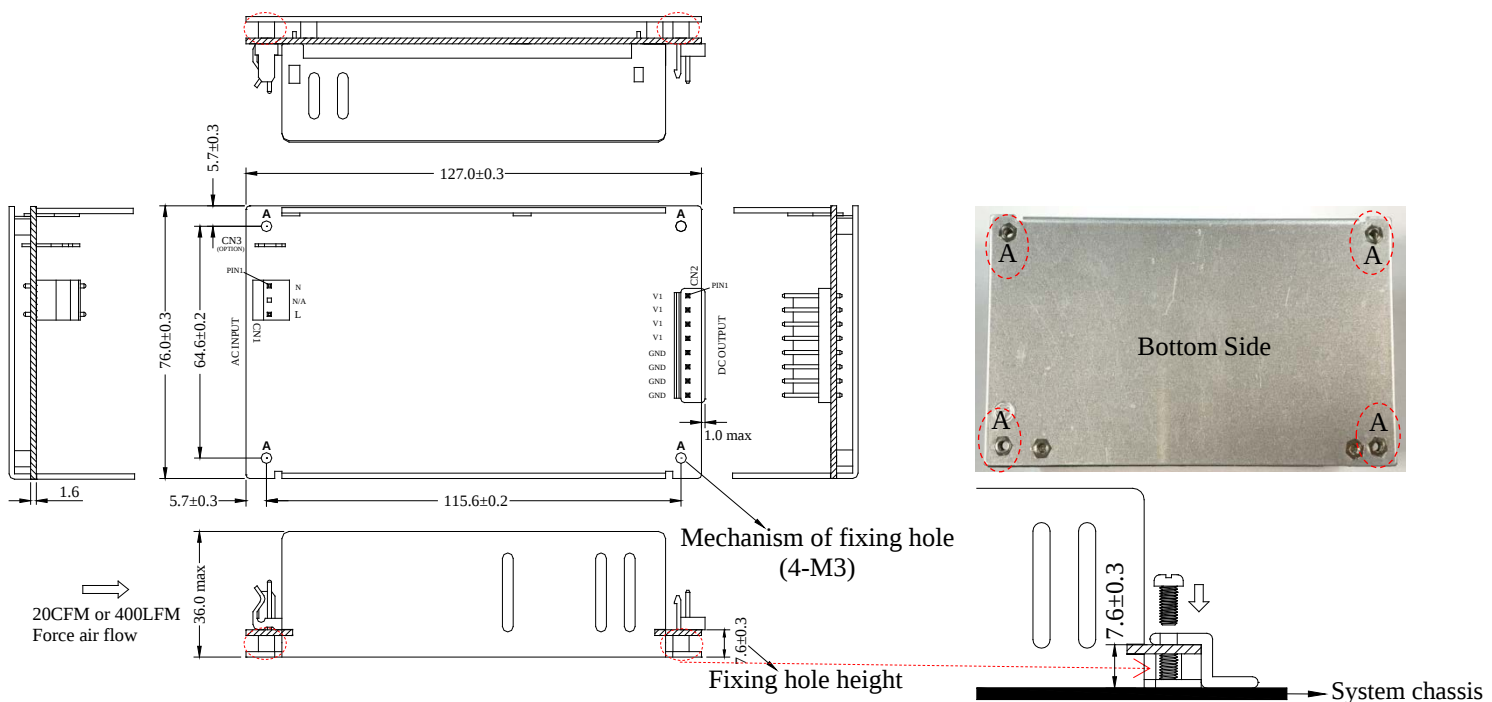
WP213F11-24-NFAD01P00 (Connector code→AD)

Fix hole: marker A are $\phi 3.5$ through holes, Case dimension (L*W*H): 127*76*36 mm



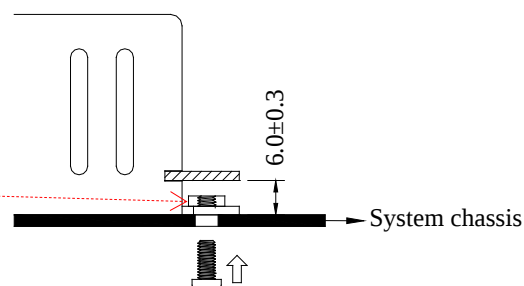
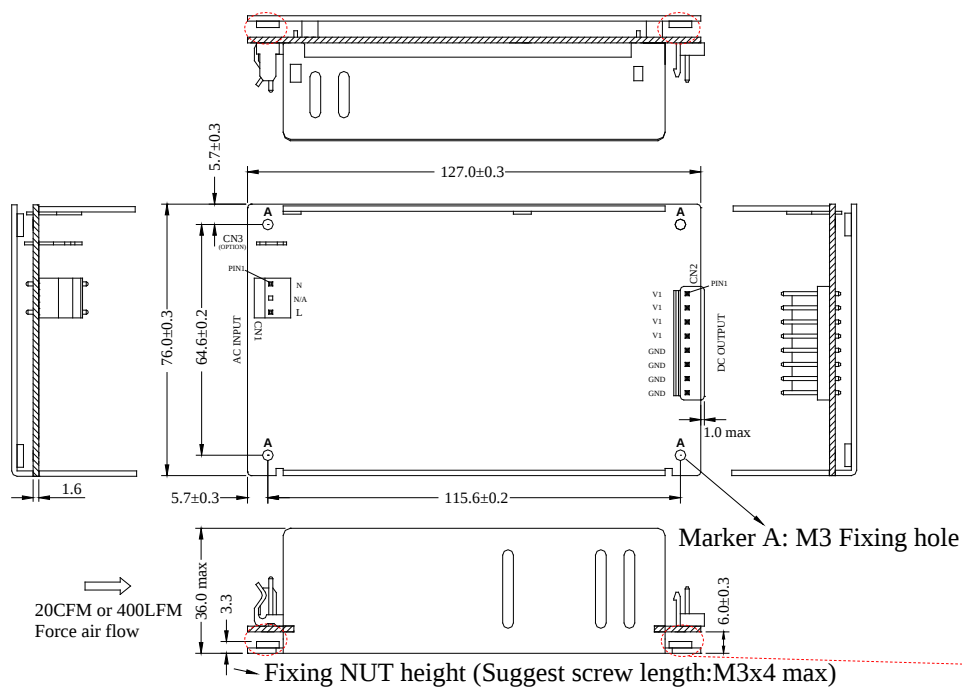
WP213F11-24-NFAD01P01 (Connector code→AD)

Fix hole: marker A are M3 fixing holes, Case dimension (L*W*H): 127*76*36 mm



WP213F11-24-NFAD01P02 (Connector code→AD)

Fix hole: marker A are M3 fixing NUT, Case dimension (L*W*H): 127*76*36 mm



WP213F11-24-NFAD01P03 (Connector code→AD)

Fix hole: marker A are Cut off the 4 sides of case, directly fixed to PCB by stand-off., Case dimension (L*W*H): 127*76*36 mm

