WIN-TACT

ITE Redundant Power Supply

200W / 300W(Air) 1+1 Passive Open Frame

WP213F13-12 (ADR40)

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
- ◆ 5Vsb,12Vaux,Re-mote on/off, P-OK, Power-on LED
- ◆ Remote Control ,OCP , OVP , OTP Protection
- ◆ High Power 200W/Convection , 300W/20CFM Air
- ◆ Redundant power supply (Passive 1+1=1)

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	4.5A/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	+12V
RATED LOAD(Convection)	0 ~ 16.6A
Max. LOAD(W/20CFM Airflow or Fan)	25A
RIPPLE & NOISE	120mV
REGULATION	±3%
Max. POWER	200W / 300W

PROTECTION SPECIFICATIONS	
OCP: (Over Load Protection)	150 ~ 200%
OVP: (Over Voltage Protection)	13.2 ~ 15.6V
OTP: (Over Temp. Protection)	HS1 ≧115℃, Shut down O/P voltage

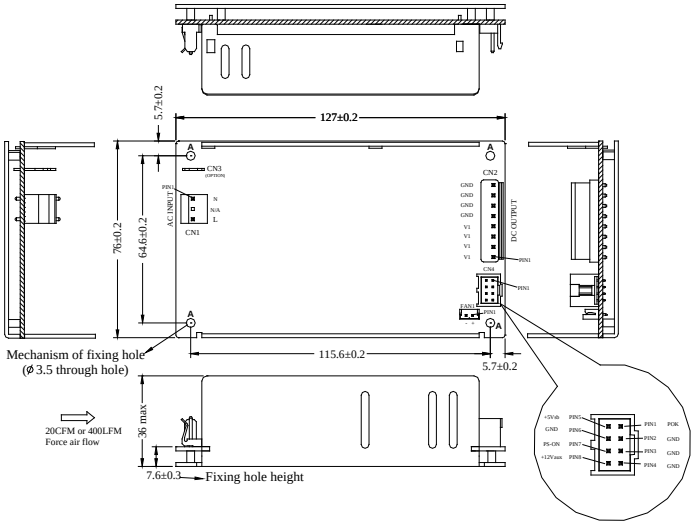
GENERAL SPECIFICATIONS	
HOLD UP TIME (Typ.)	≧16mS @ 115V
REMOTE CONTROL(ON-OFF)	ON@ High or Open, Off@ Low or Short
DC OK SIGNAL(P-OK)	High : 2.4 ~ 5.25V , Low : 0 ~ 0.4V
5Vsb & 12Vaux For External Fan	5Vsb/ 0.8A , 12Vaux./ 0.4A
COOLING	Convection/200W, 20CFM for 300W

SAFETY & ENVIRONMENTAL SPECIFICATIONS	
SAFETY APPROVALS REQUIRED :	Meet UL , cUL , CE , FCC , CB
SAFETY STANDARDS	UL 60950-1 2nd , EN 60950-1& 60601-1
EMC EMISSION	EN55032(CISPR22) & FCC Class B.
OPERATING AMBIENT TEMP.	-40 ~ 85℃ (note 1) (note 1: -40℃ start up condition, o/p ≦ 200W)

Typical Mechanical Drawing :

WP213F13-12 (Connector code→AD)

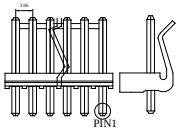
Case dimension (L*W*H): 127*76*36 mm



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

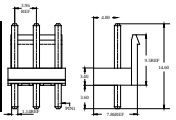


Output Connector (CN2) :

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

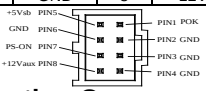
V1=12V



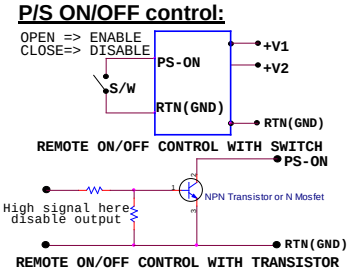
Connector (CN4) :

MOLEX 90130-1108 (90130 SERIES) or EQU
Mates with (MOLEX 90142) or EQU

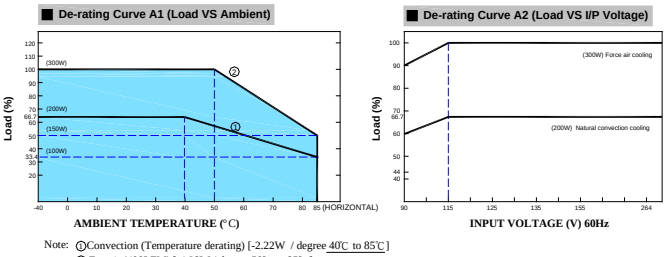
Pin	Signal	Pin	Signal
1	P OK	5	+5Vsb
2	GND	6	GND
3	GND	7	PS ON
4	GND	8	+12Vaux



P/S ON/OFF control:



De-rating Curve



Note: ①Convection (Temperature derating) [-2.22W / degree 40℃ to 85℃]
② Fan air (400LFM) [-4.28W / degree 50℃ to 85℃]

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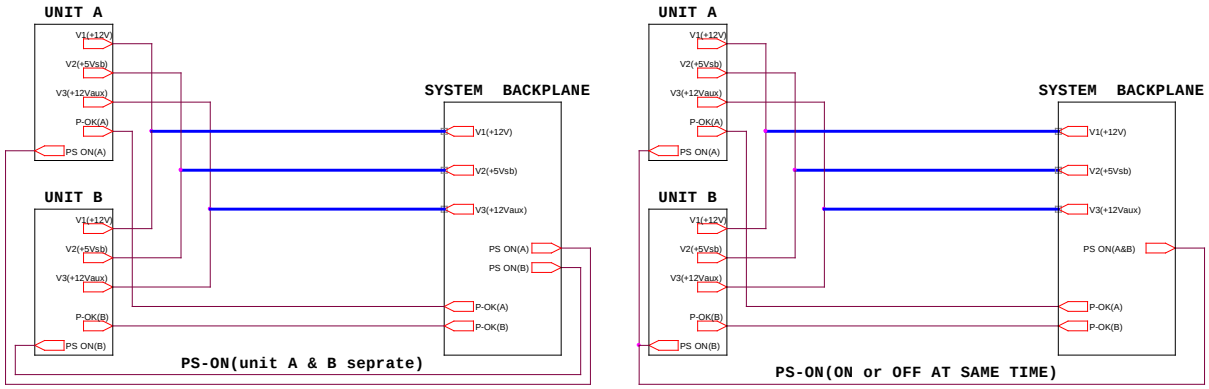
Parallel Operation：

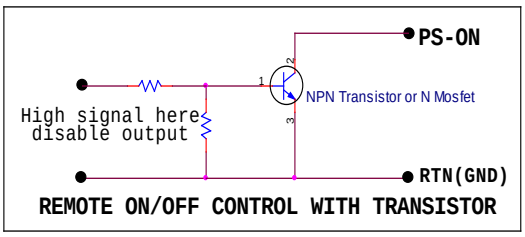
The power supplies may be connected in parallel to provide passive 1+1=1 redundancy output power. Each of these models has a build-in ORing FET for (V1), ORing Diode for (V2,V3) and standby take over each other when any one unit failure.

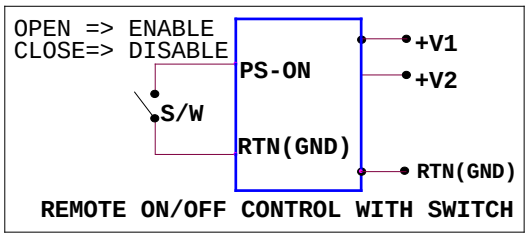
■ 1+1 Power units connections setting



P/S ON/OFF control

The supply Main output can be enabled or disabled through the PS-ON pin. A common control circuit is show below.





Power OK

signal Type	+5V TTL compatible output signal	
P-OK = High	Power OK	
P-OK = Low	Power Not OK	
	MIN	**MAX**
Logic level low voltage, Isink = 4mA	0V	0.4V
Logic level high voltage, IIsource = 200μA	2.4V	5.25V