AOF205H Series

Single Output High Density & High Effeciency Power Supply





Features and Applications:

- 230W Max For AOF205H-12/24/30/36 With 20CFM Airflow Cooling
- •170W Max For AOF205H-12 With 10CFM Airflow Cooling
- 250W Max For AOF205H-48 With 20CFM Airflow Cooling (see table1)
- High Power Density 13W/Cubic Inch MAX
- AC/DC Universal Input Switch Mode Power Supply
- Active Current Share
- Industry Standard 3.0×5.0×1.3 Inch Package (1U applications)
- 5V Standby & 12V Fan Outputs
- Remote On/Off
- Power Good Signal
- Power Factor Correction (PFC) Meets EN61000-3-2
- OVP,OCP,OTP and Short Circuit Protection
- EMI Compliance EN55022-B, FCC Part 15 Class B
- Safety Approvals cUL, TUV and CE

All specifications are typical at nominal input, full load, at 25 °C unless otherwise stated.

	Electi	rical Specs		Genera	nl
Ī	INPUT Input Range	90 ~ 264VAC, full range	Isolation Voltage	1	OVAC 2VDC
	Frequency Range Efficiency	47 ~ 63 Hz See table 1 (230V)	Switching Freq.	70KHz,±5KHz	z Fixed
	Input Current Inrush Current	5.0A rms @ 100VAC, full load 40A typical@115VAC, cold start	Weight	500g(17.65z)	max.
	Leakage Current Input Fuse	80A typical@230VAC, cold start 1.75mA max.	Warranty Info MTBF	1 year 150,000 hour @25C, 80% I	
	OUTPUT Maximum Power	see table 1		Environme	ental
	Minimum Load Operation Load Regulation Line Regulation Ripple & Noise	0A ±2% ±1% max. 1% of Vo at 20M Hz	Operating Temp. Storage Temp.	-20°C to 50°C	
	Power On Time Hold-up Time	2s max. at turn on > 10ms@ full load,115AC	Relative Humidity	5% to 95% Non-condens	ing
	OCP Protection OVP Protection OTP Protection	140% lout max. 140% Vout max. 65±5 °C ambient temperature	Altitude	Operating 10 Non-operatin	,000 ft max. g 50,000 ft max.
	Short Circuit Protection Temperature Derating	Automatic Restart +50 °C ~+70 °C	Vibration	2.4G rms pea	k, 5Hz ~ 500Hz
		decrease 2.5% / °C See table 2	Shock RoHS	40G peak Compliant	
	Power Good Signal Remote On/Off	5V ±10%			
	Active Current Share 12V Fan Output 5V Aux (standby)	Up to 3 supplies to share within 1 12V $\pm 10\%$ 0.35A max. 5V $\pm 5\%$ 0.5A max.	0%		

Safety

 $C \in$

EN55024,EN55022,EN61000

UL60950-1: 2003, First Edition

TUV EN60950-1 **ESD**

Conducted Emissions FCC Class A Radiated Emissions

Surge

FCC Class A EN61000-4-2, level3 EN61000-4-5, level4 Typical

EMC

Fast Transient EN61000-4-4, level3

Amperor Inc.

cUL

CE

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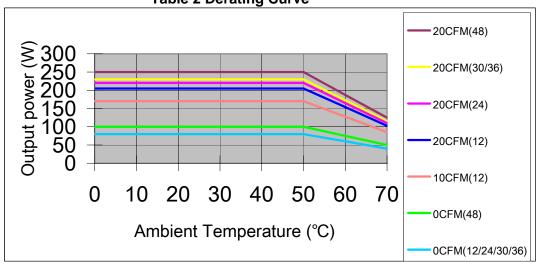
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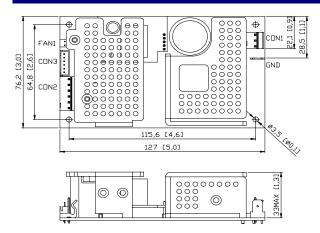


	Table1 AC	F205H Series	Model Outpu	t Specifi	cations (230V)	
MODEL	OUTPUT VOLTAGE	OUTPUT CURRENT Max	OUTPUT POWER Max (W)	%EFF. TYPICAL	RIPPLE & NOISE	LOAD REGULATION	OUTPUT VOLTAGE RANGE
AOF205H-12	+12V	17.00A	205	82	120mV	±2%	±5%
AOF205H-24	+24V	9.16A	220	84	240mv	±2%	±5%
AOF205H-30	+30V	7.67A	230	85	300mv	±2%	±5%
AOF205H-36	+36V	6.39A	230	86	360mv	±2%	±5%
AOF205H-48	+48V	5.20A	250	87	480mv	±2%	±5%

Table 2 Derating Curve



Mechanical Information



Notes	5!								
1.The	Power	□ff	when	the	remote	□n/□ff	connect	to	ground
2.The	Power	Πn	when	the	remote	□n/□ff	connect	to	HĬgh
signal	l or op	en							

ME	LEX:09-65-2068
CDN5	DC DUTPUT CONNECTOR
PIN 1	+V
PIN 2	+V
PIN 3	+V
PIN 4	RTN
PIN 5	RTN
PIN 6	RTN
FEMAL	Molex 09-50-1061
	Molex 09-52-4064

		JST:S 6B-XH-A
CONS	3	SIGNAL CONNECTOR
PIN	1	REMOTE ON/OFF
PIN	2	-SENSE
PIN	3	+SENSE
PIN	4	CLRRENT SHARE
PIN	5	POWER GOOD
PIN	6	5Vaux
FEM4	ΝLΕ	JST XHP-6

١	1□L	EX:09-65-2038
CDN1		AC INPUT CONNECTOR
PIN	1	NEUTRAL
PIN	2	ND PIN
PIN	3	LINE
FEMA	LE	Molex 09-52-4034
		Molex 09-50-1031

M□L	EX:22-04-1021
FAN1	Fan Power CONNECTOR
PIN 1	+12V
PIN 2	+12V RTN
FEMALE	Molex 22-01-1022
	Molex 51191-0200

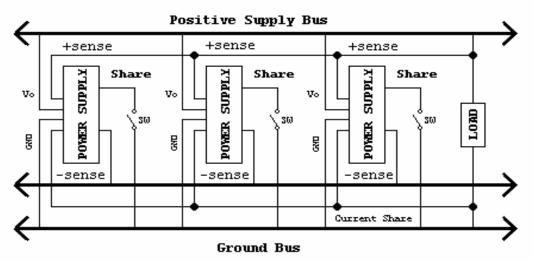
KANO	ΞY	ANG:PCRS250-1
GND		GND TERMINAL
PIN	1	GND
FEMAL	E	Panduit:DMNF1-63F1B-C
		Panduit:DNFR14-250B-C

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1.Current Share Connection Figure



2. Timing/Housekeeping/Control

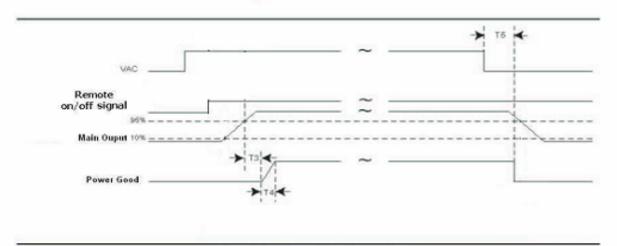


Table1: Power good Signal Characteristics

Signal Type	+5 V TTL compatible
Logic level low	< 0.4 V while sinking 4 mA
Logic level high	Between 2.4 V and 5 V output while sourcing 200 μA
Power Good delay	100 ms < T ₃ < 500 ms
Power Good rise time	T ₄ ≤ 10 ms
AC loss to power good hold-up time	T ₅ ≥ 10 ms