



ETA-USA

The Power Professionals

AOFD-120

120W Din Rail Mount



FEATURES:

Universal AC input 90~264 VAC and
127~370 VDC

Flexible Din Rail Mount

Industrial Temp Range -25 ~ +70°C range

Rugged Design

Warranty: 3 years

Installation on DIN rail 30mm only

PFC as standard (180W-240W)

Over voltage protection

Over current protection

LED Indicator for DC power ON

LED Indicator for DC low



	MODEL/CHANNEL	Unit	AOFD-120-24	AOFD-120-48		
OUTPUT	Normal Voltage	[V]	24	48	-	-
	Setting Voltage Range	[V]	23.76 ~ 24.24	47.52 ~ 48.48	-	-
	Voltage Adjustment Range	[V]	22.5 ~ 28.5	45 ~ 55	-	-
	Current	[A]	5.0	2.5	-	-
	Rated Power	[W]	120	120	-	-
	Line Regulations	[mV]	120	240	-	-
	Load Regulations	[mV]	240	480	-	-
	Temperature Drift	[mV]	360	720	-	-
	Ripple& Noise(pk-pk) (*1)	[mV]	100	120	-	-
	Turn-on Time typ.	[ms]	100 (AC IN 100V, Io=100%)			
Hold-up Time typ.	[ms]	20 (AC IN 100V, Io=100%)				
INPUT	Voltage, Frequency	[V]	AC100 - 240(AC 90-264, 50/60Hz(47 - 63) or DC127-370V (Universal Input)			
	Current Typ. 110V	[A]	2.4		-	
	220V		1.4		-	
	Efficiency Typ. 110V	[%]	85	86	-	-
	220V		87	88	-	-
	Inrush Current Typ. 110V	[A]	25 (Ta=25°C , Cold Start)			
	220V		45 (Ta=25°C , Cold Start)			
Function	Leakage Current 110V	[mA]	0.35 (Typ.)			
	1mA Max 220V		0.75 (Typ.)			
	Over Voltage Protection	[V]	115% ~ 140% of rating			
	Over Current Protection ⁽²⁾	[A]	110% of rating and recovers automatically			
	Remote Sensing		Hiccup mode, recovers automatically after fault condition is removed			
	DC_OK Lamp	-	LED (GREEN)			
	DC_LOW Lamp	-	LED (RED)			
Electrical Isolation	Cooling / O.T.P	-	Convention Cooling			
	(1) Input - Output	-	AC 3.0KV 1min, cut-off: 20mA / DC 500V 100MΩ			
	(2) Input - F.G	-	AC 2.0KV 1min, cut-off: 20mA / DC 500V 100MΩ			
	(3) Output - F.G	-	AC 0.5KV 1min, cut-off:100mA / DC 500V 100MΩ			
Environment	Operating temp. & Humidity	-	-25 ~ +70°C(Required Derating), 20 ~ 90%RH (Non Condensing)			
	Storage temp. & Humidity	-	-40 ~ +75°C, 20 ~ 90% RH (Non Condensing)			
	Vibration	-	10~55Hz at 1G 3minutes period, 30minutes along X,Y and Z axis			
Dimension	Size(WxHxD) / Weight	mm/g	40 x 130 x 125 / 800			
Safety	-	-	cUL, CE, CB		cUL, CE, CB	
Emission	Conducted Emission	-	Complies with EN55011/EN55022-B, FCC-B			
PEHC	-	-	-			

*note1 : Type A,AD only

*note2 : Frequency 50/60Hz



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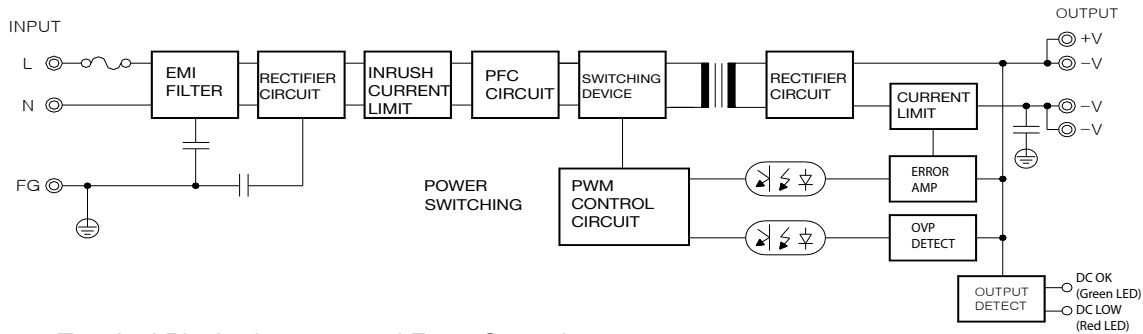
16170 Vineyard Blvd. Suite 180 Morgan Hill, CA 95037 <http://www.eta-usa.com>
Toll-free (US only): 800-ETA-POWR (800-382-7697) Telephone: 408 778-2793 FAX: 408-779-2753



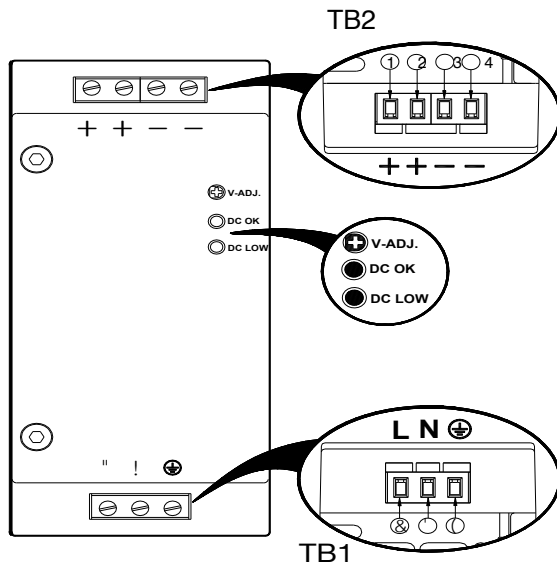
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1. BLOCK DIAGRAM



2. Terminal Pin Assignment and Front Controls



Marking	No.	Assignment
L	①	AC(L) Input Terminals
N	②	AC(N) Input Terminals
⊕	③	AC Grounding Terminal

TB2 : Output Terminal Assignment

Marking	No.	Assignment
+	①	DC (+) Output Terminals
-	②	DC (-) Output Terminals
-	③	DC (-) Output Terminals
-	④	DC (-) Output Terminals

Front Controls Assignment

Marking	Assignment
V-ADJ.	DC Output voltage adjustment
DC OK	DC Output indication LED (Green)
DC LOW	DC Output Low indication LED (Red)

3. Connection / Connecting Cable

Terminals	Solid or Stranded Wires		Torque	Stripping Length
	[mm ²]	[AWG]		
Input Terminals	(TB1)	0.5 ~ 2.5	30 ~ 12	0.5~0.6 8
Output Terminals	(TB2)	0.5 ~ 2.5	30 ~ 12	0.5~0.6 8

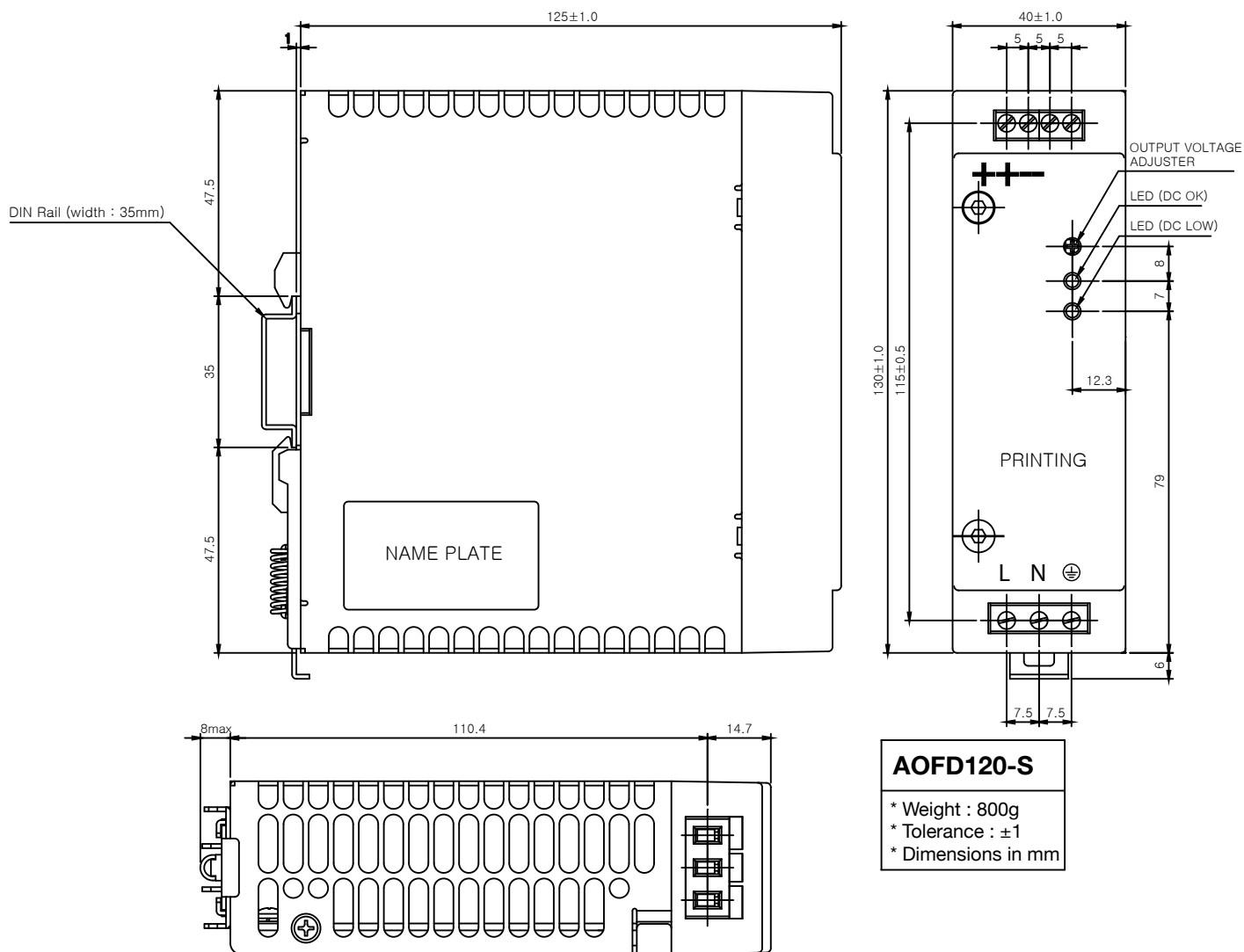




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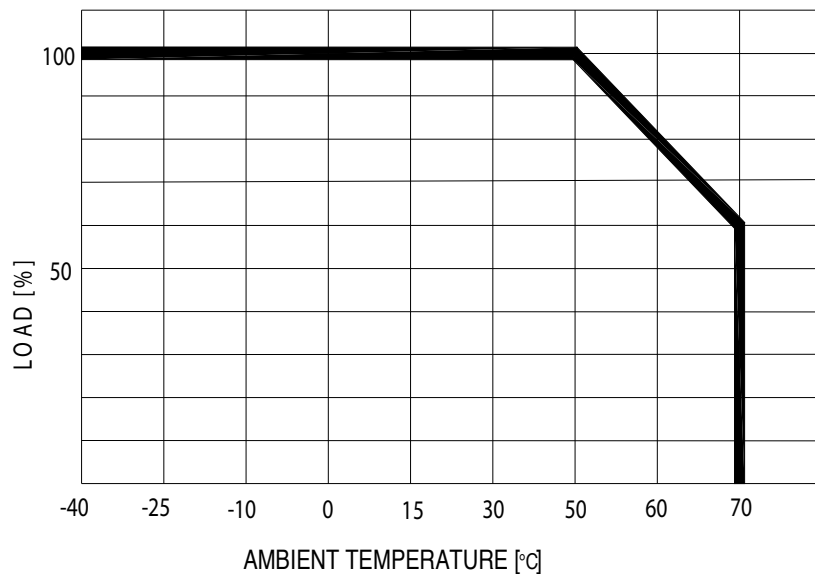
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Output Derating Curve

Note: When using the product between -25°C ~ 0°C, the output ripple and noise could exceed its specification.



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AMEYA360

Components Supply Platform

Authorized Distribution Brand :



Website :

Welcome to visit www.ameya360.com

Contact Us :

➤ Address :

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd
Minhang District, Shanghai , China

➤ Sales :

Direct +86 (21) 6401-6692

Email amall@ameya360.com

QQ 800077892

Skype ameyasales1 ameyasales2

➤ Customer Service :

Email service@ameya360.com

➤ Partnership :

Tel +86 (21) 64016692-8333

Email mkt@ameya360.com