



ETA-USA

The Power Professionals

AOFD-30

30W Din Rail Mount



AOFD-30

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-30-12	AOFD-30-24		
OUTPUT	Norminal Voltage	[V]	12	24	-	-
	Setting Voltage Range	[V]	11.88 ~ 12.12	23.76 ~ 24.24	-	-
	Voltage ADJ. Range *note1	[V]	10.8 ~ 13.2	21.6 ~ 26.4	-	-
	Current	[A]	2.5	1.3	-	-
	Rated Power	[W]	30	31.2	-	-
	Line Regulations	[mV]	60	120	-	-
	Load Regulations	[mV]	120	240	-	-
	Temperature Drift.	[mV]	180	360	-	-
	Ripple Max	[mV]	120	120	-	-
	Ripple and Noise Max	[mV]	150	150	-	-
	Turn-on Time Typ.	[mV]	100 (AC IN 100V, Io=100%)			
Hold-up Time Typ.	[mV]	20 (AC IN 100V, Io=100%)				
INPUT	Voltage, Frequency	[V]	AC100 - 240V(AC90 - 264V), 50/60Hz(47 - 63) or DC127~370V (Universal Input)			
	Current Typ.	110V 220V	0.9 0.6	0.9 0.6	- -	- -
	Efficiency Typ.	110V 220V	82 82	84 84	- -	- -
	Inrush Current Typ.	110V 220V	20 (Ta=25°C , Cold Start) 40 (Ta=25°C , Cold Start)			
	Leakage Current	110V	0.35 (Typ.)			
	1mA Max	220V	0.75 (Typ.)			
	Function	Over Voltage Protection	[V]	115%~140% of rating		
Over Current Protection ^(*)		[A]	110% of rating and recovers automatically			
DC_OK Lamp		[A]	LED (GREEN)			
DC_LOW Lamp		-	LED (RED)			
Parallel/Series Operation		-	Series Operation is possible			
Cooling / O.T.P		-	Convection cooling			
Electrical Isolation	(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	36 x 108 x 95 / 250g			
Safety	-	-	cUL, CE, CB		cUL, CE, CB	
Emission	Conducted Emission	-	Complies with EN55011/EN55022-B, FCC-B			

(*1) Terminated with 0.1uF & 47uF parallel capacitor(Bandwidth=20MHz), (Ta=0°C~70°C)

(*2) Protection Mode : Current limited



ETA-USA

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



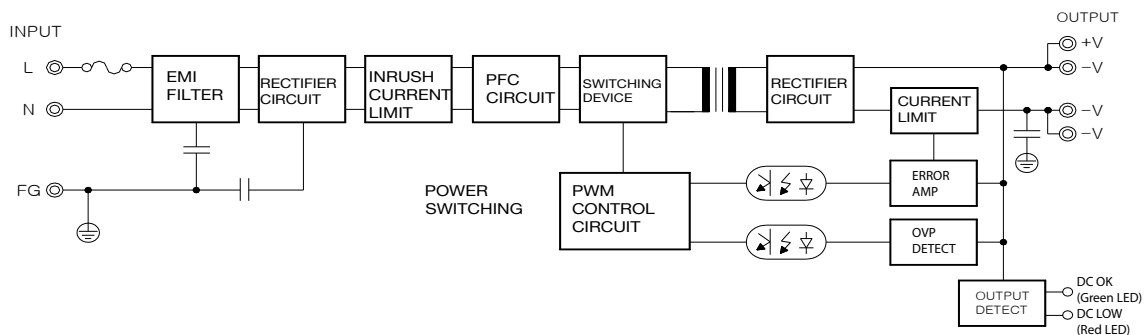
ETA-USA

The Power Professionals

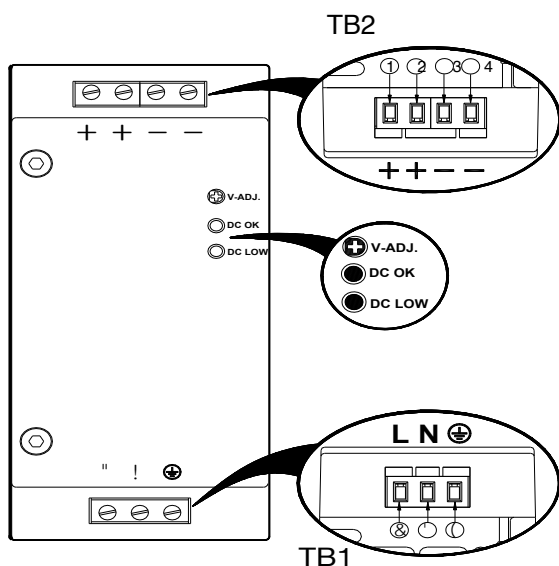
AOFD-30

30W Din Rail Mount

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]	[Nm]	L [mm]
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



ETA-USA

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



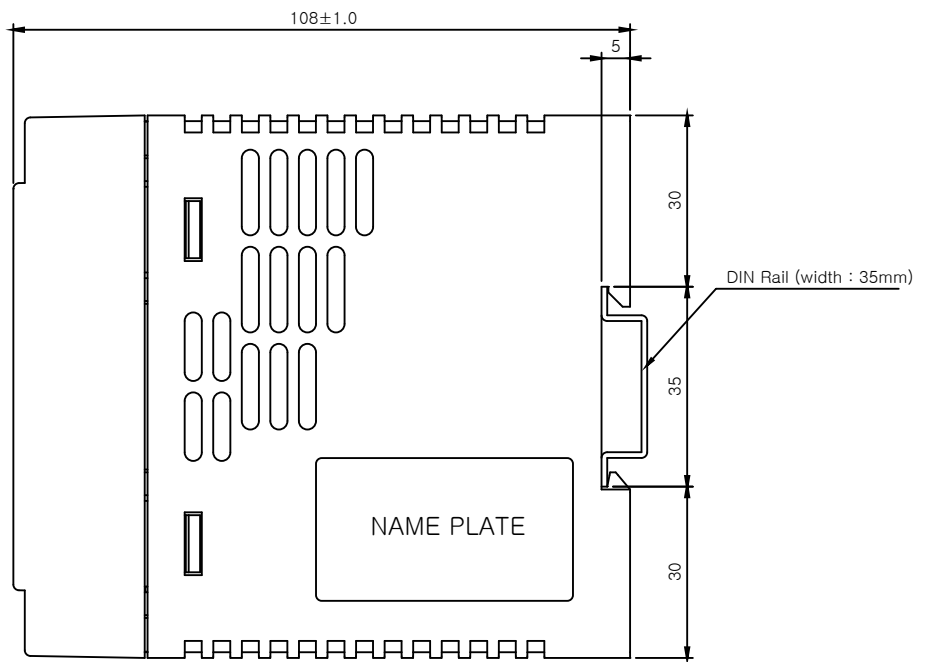
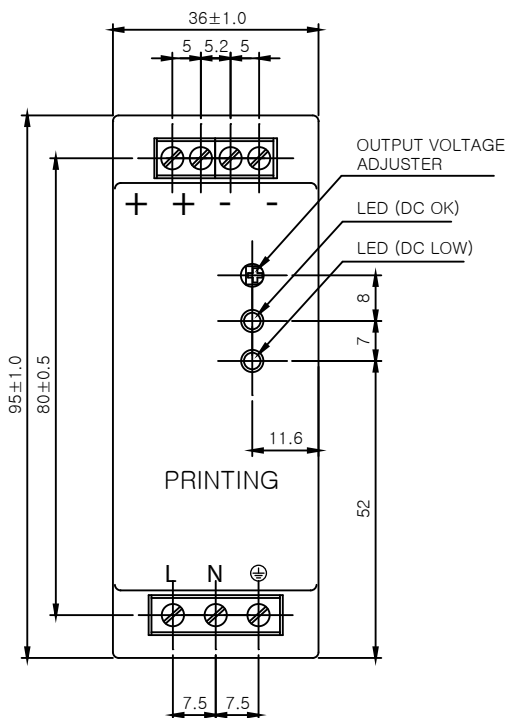
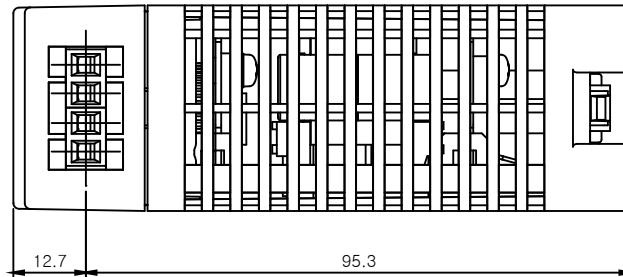
ETA-USA
The Power Professionals

AOFD-30

30W Din Rail Mount

AOFD30-S

- * Weight : 250g
- * Tolerance : ± 1
- * Dimensions in mm



ETA-USA

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



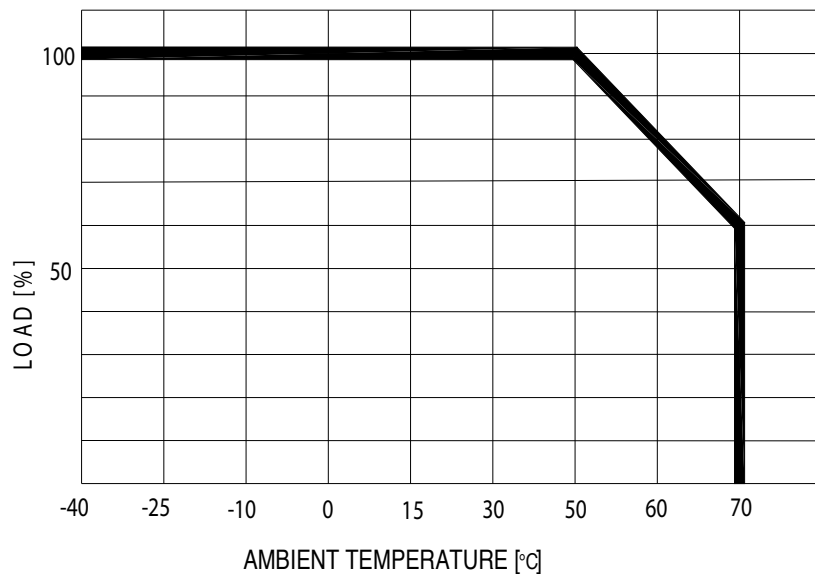
ETA-USA
The Power Professionals

AOFD-30

30W Din Rail Mount

Output Derating Curve

Note: When using the product between $-25^{\circ}\text{C} \sim 0^{\circ}\text{C}$, the output ripple and noise could exceed its specification.



ETA-USA

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

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