



## AOFD-50

## 50W 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	AOFD50-24	AOFD50-48
<b>OUTPUT</b>	Norminal Voltage	V	24	48
	Setting Voltage Range	V	23.76~24.24	47.52~48.48
	Voltage ADJ. Range *note1	V	22.5~28.5	45~55
	Current	A	2.2	1.1
	Line Regulations	mV	120	240
	Load Regulations	mV	240	480
	Temperature Drift	mV	360	720
	Ripple Max.	mV	100	120
	Rated Power	W	52.8	
	Turn-on Time Typ.	ms	560 (AC IN 100V, Io=100%)	
Hold-up Time Typ.	ms	20 (AC IN 100V, Io=100%)		
<b>INPUT</b>	Voltage, Frequency	V	AC100-240V(AC90-264V), 50/60Hz(47-63) or DC127~370V (Universal Input)	
	Current Typ.	110V 220V	A	1 0.6
	Efficiency Typ.	110V 220V	%	86 88
	Inrush Current Typ.	110V 220V	A	20 (Ta=25°C, Io=100% at Cold Start) 40 (Ta=25°C, Io=100% at Cold Start)
	Leakage Current 1mA Max.	110V 220V	mA	0.45 (Typ.) 0.75 (Typ.)
	<b>Function</b>	Over Voltage Protection	V	125%~146% 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	
<b>Electrical Isolation</b>	(1) Input - Output	-	AC 3KV 1 min, cut-off: 20mA/DC 500V 100MΩ	
	(2) Input - F.G	-	AC 2KV 1 min, cut-off: 20mA/DC 500V 100MΩ	
	(3) Output - F.G	-	AC 0.5KV 1 min, cut-off: 100mA/DC 500V 100MΩ	
<b>Environment</b>	Operating temp. & Humidity	-	-25 ~ +70°C(Required Derating), 20~90%RH (Non Condensing)	
	Storage temp. & Humidity	-	-40~85°C, 20~90% RH (Non Condensing)	
	Vibration	-	10~55Hz at 1G 3 minutes period, 30 minutes along X,Y and Z axis	
<b>Dimension</b>	Size(WxLxH) / Weight	mm/g	30x125x130/570	
	Safety	-	UL, c-UL, CE, CB	
	Emission	-	Conducted Emission Complies with EN55022-B	

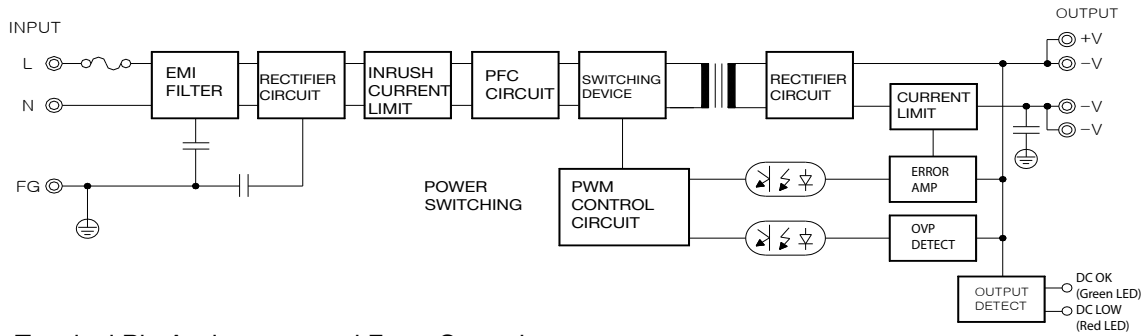




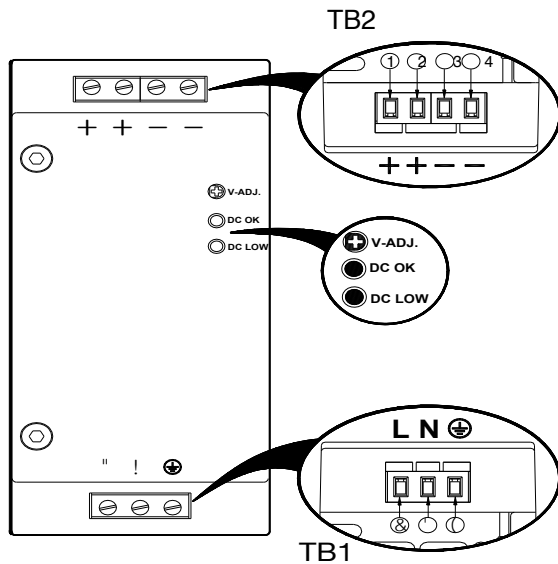
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### 1. BLOCK DIAGRAM



### 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	
-	③	DC (-) Output Terminals
-	④	

#### 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 [Nm]	Stripping Length L [mm]
	[mm <sup>2</sup> ]	[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



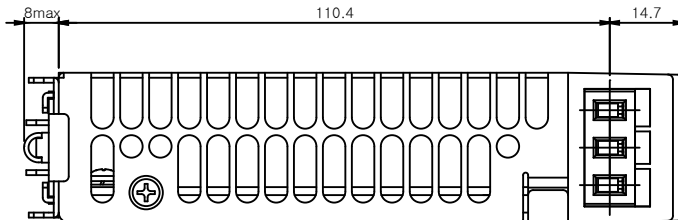
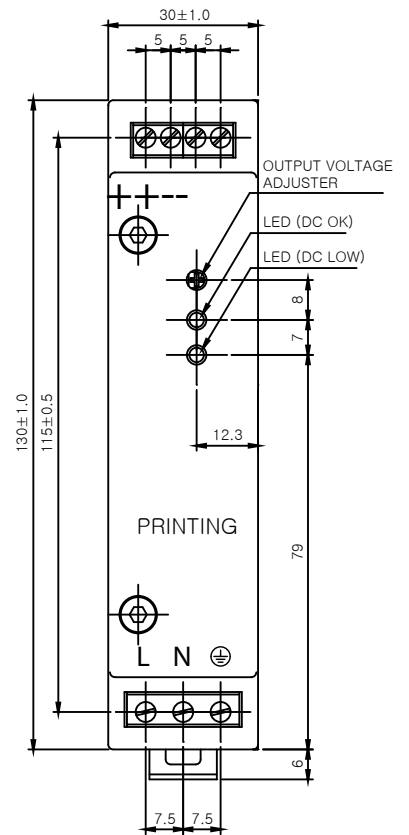
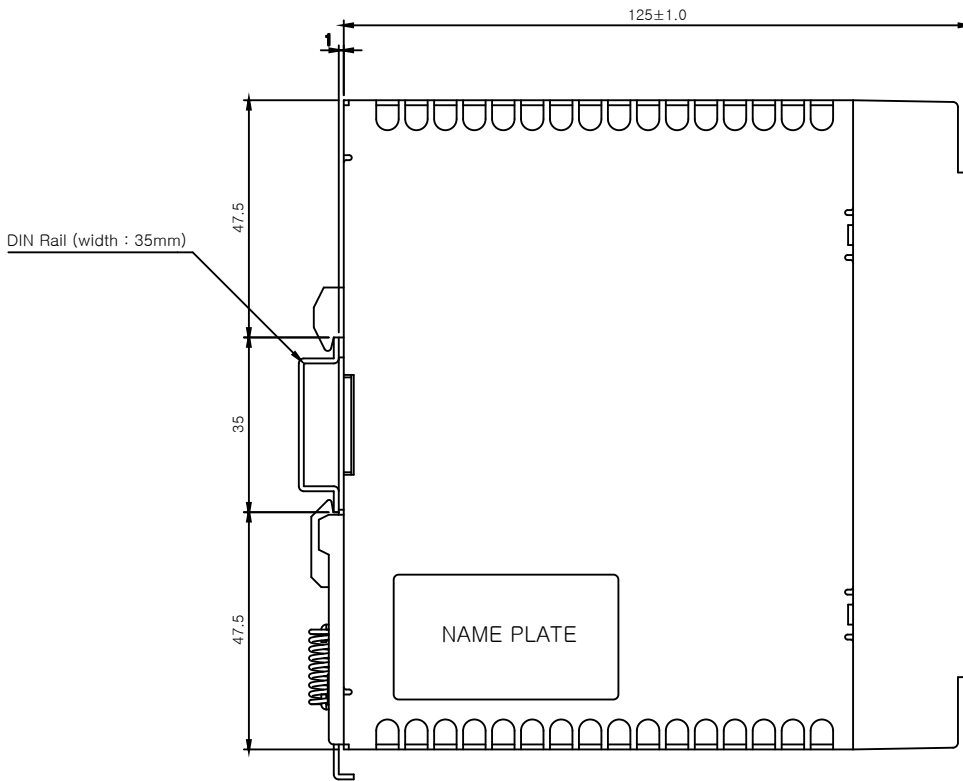


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## AOFD-50

## 50W Din Rail Mount



### AOFD50-S

- \* Weight : 570g
- \* Tolerance :  $\pm 1$
- \* 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



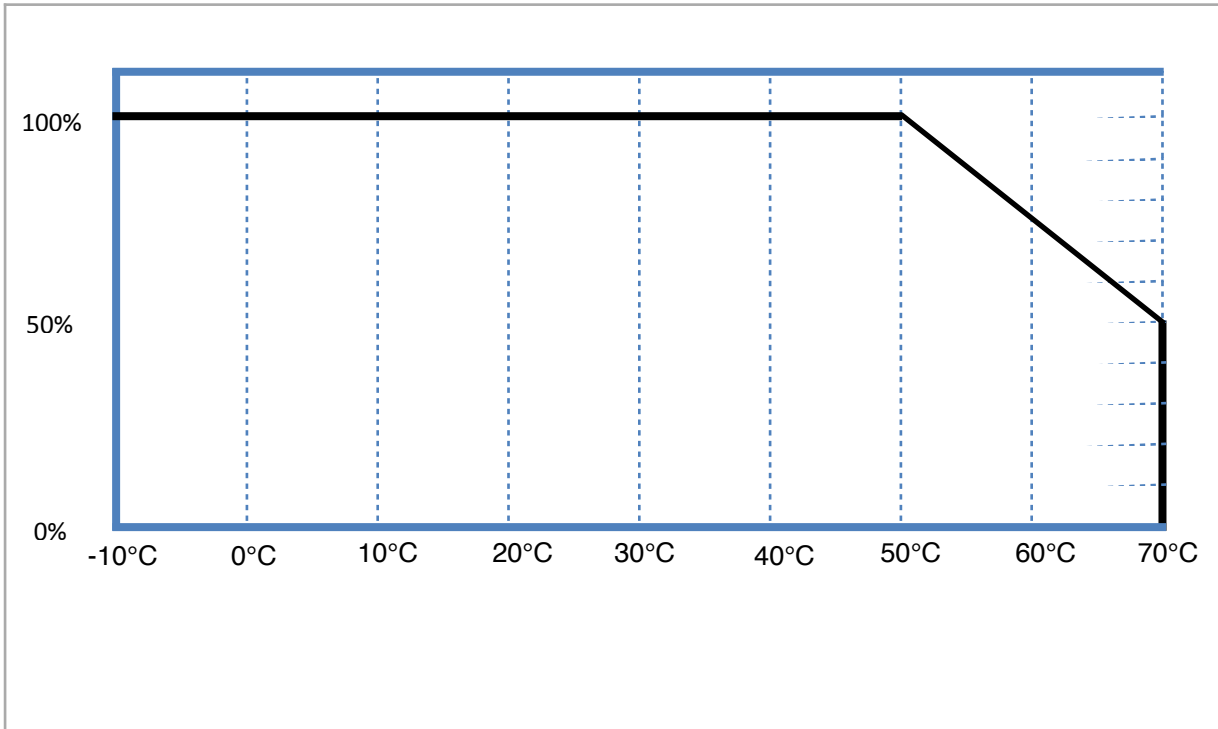
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## Output Derating Curve



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