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The Power Professionals

AOFD-30

30W 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-30-12	AOFD-30-24
OUTPUT	Normal 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	
	Ripple and Noise Max	mV	150	
	Turn-on Time Typ.	mV	560 (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	A	0.9 0.6	
	Efficiency Typ. 110V/220V	%	82	84
	Inrush Current Typ. 110V/220V	A	20 (Ta=25°C, Cold Start) 40 (Ta=25°C, Cold Start)	
	Leakage Current 1mA Max 110V/220V	mA	0.35 (Typ.) 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 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	
Environment	Operating temp. & Humidity	-	-25 ~ +70°C(Required Derating), 30 ~ 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	
Dimension	Size(WxLxH) / Weight	mm/g	36x95x108/250	
	Safety	-	cRU, CE	
	Emission	-	Conducted Emission Complies with EN55011/EN55022-B, FCC-B	



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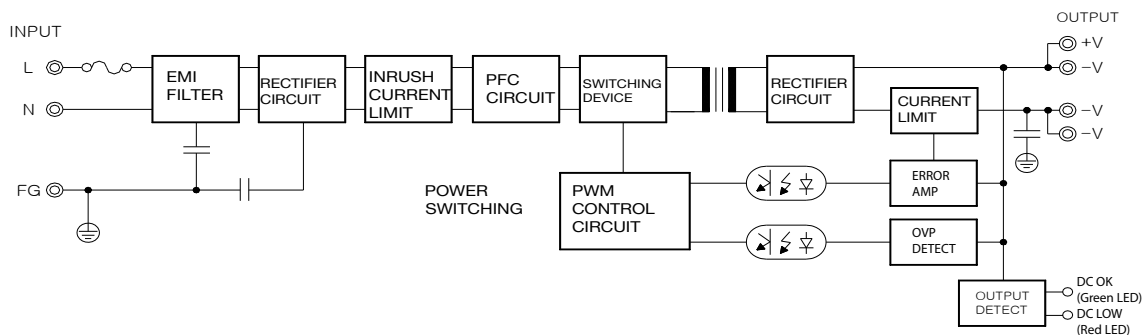
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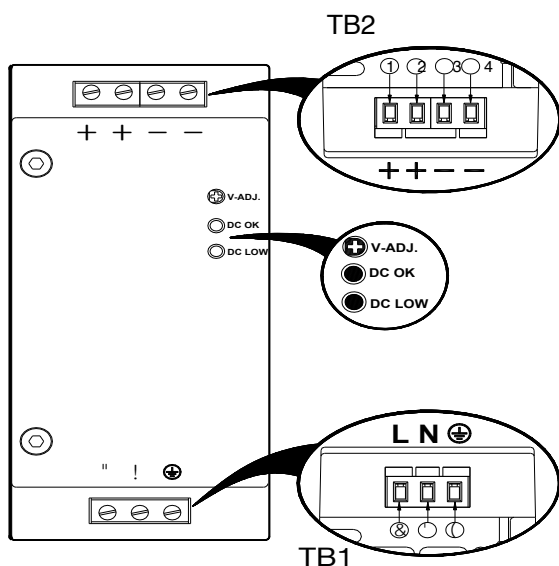
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1. BLOCK DIAGRAM



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]	[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



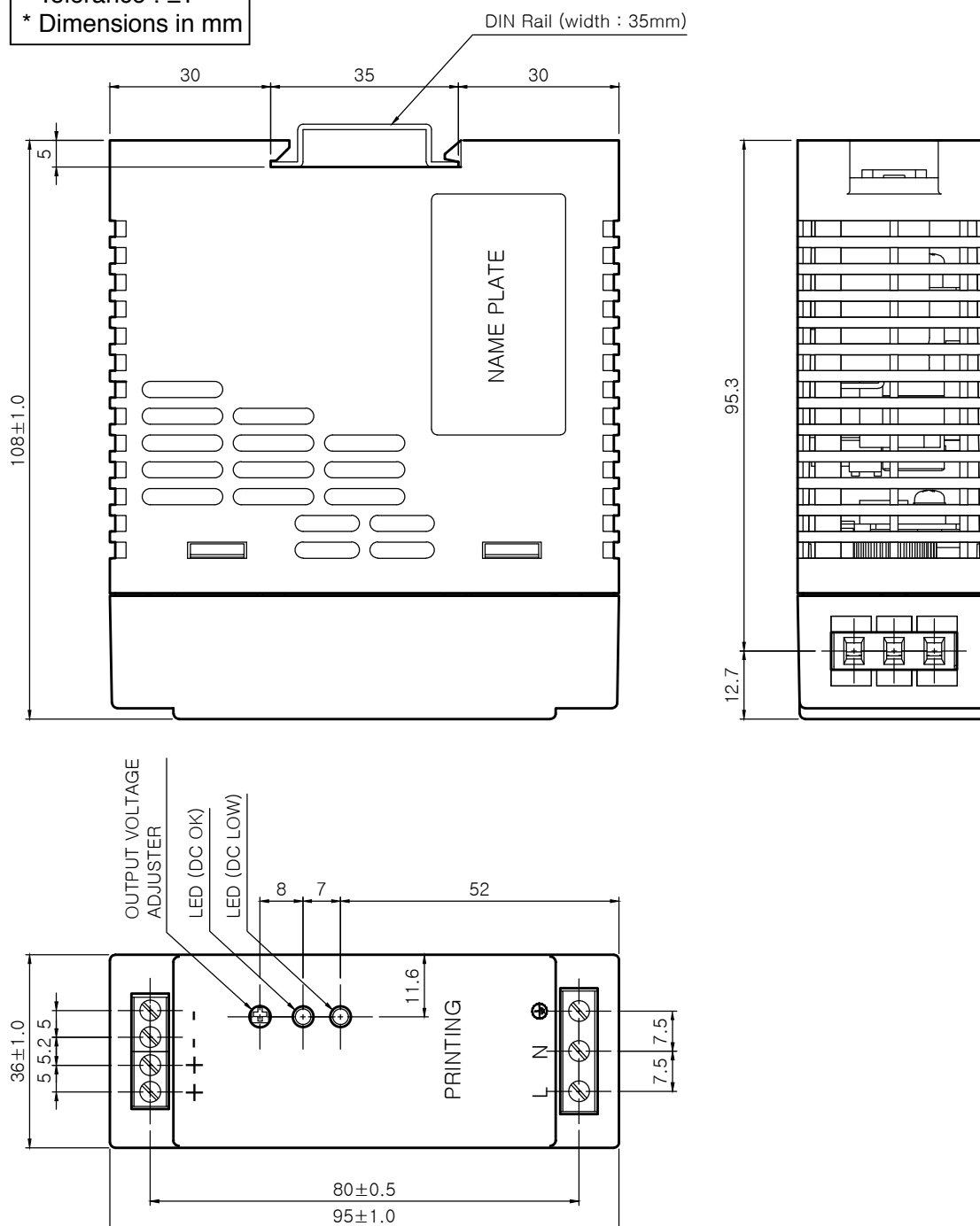


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30W Din Rail Mount

AOFD30-S

- * Weight : 230g
- * Tolerance : ± 1
- * Dimensions in mm





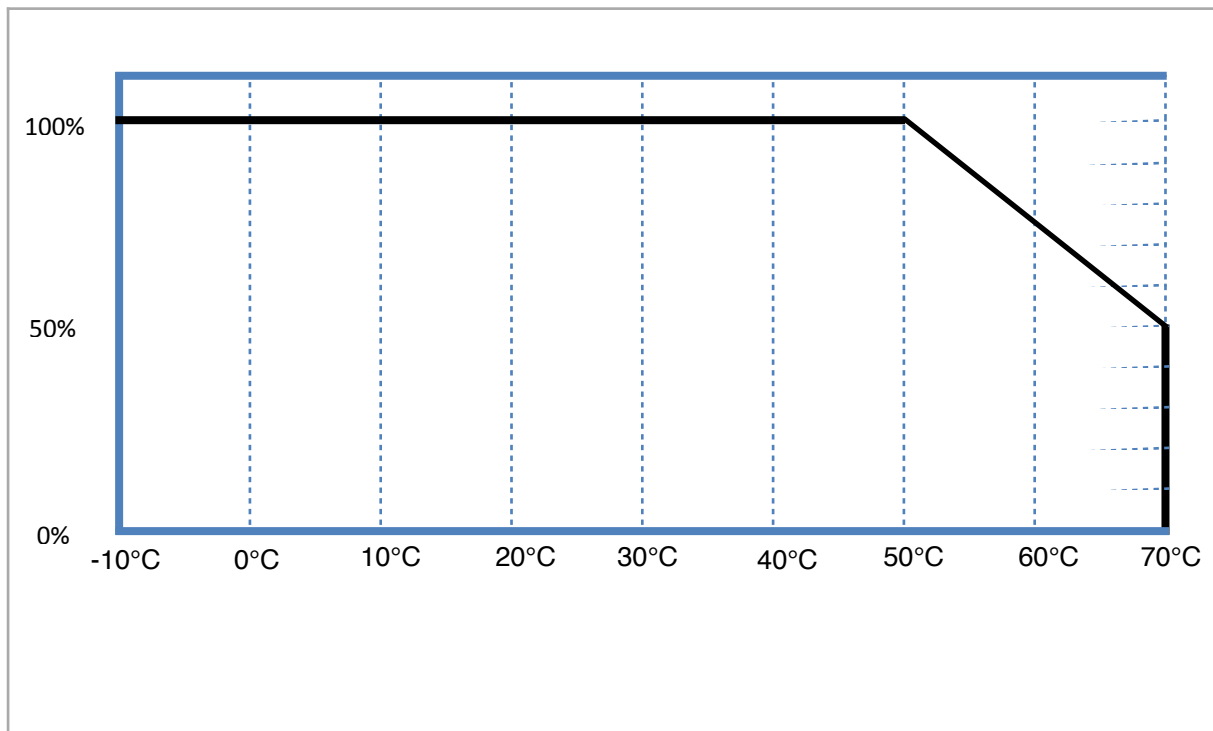
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Output Derating Curve



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