



AOFD-15

15W 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	AOFD15-05	AOFD15-12	AOFD15-24	
OUTPUT	Normal Voltage	[V]	05	12	24	-
	Setting Voltage Range	[V]	4.95 ~ 5.05	11.88 ~ 12.12	23.76 ~ 24.24	-
	Voltage ADJ. Range *note1	[V]	4.5 ~ 5.5	10.8 ~ 13.2	21.6 ~ 26.4	-
	Current	[A]	2	1.2	0.65	-
	Current ADJ. Range *note1	[A]	4.16 ~ 6.4	2.6 ~ 4	-	-
	Line Regulations	[mV]	25	60	120	-
	Load Regulations	[mV]	50	120	240	-
	Temperature Drift	[mV]	75	180	360	-
	Ripple Max.	[mV]	120	120	-	-
	Ripple & Noise Max 1.	[mV]	80	120	120	-
	Rated Power	[W]	10.0	14.4	15.6	-
	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]	0.45	0.45	0.45	-
	220V		0.3	0.3	0.3	-
	Efficiency Typ. 110V	[%]	74	79	82	-
	220V		72	77	79	-
	Inrush Current Typ. 110V	[A]	20 (Ta=25°C ,Io=100% at Cold Start)			
	220V		40 (Ta=25°C ,Io=100% at 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[A,AD]	[A]	110% of rating and recovers automatically			
	Short Circuit	[A]	Hiccup mode, recovers automatically after fault condition is removed			
Electrical Isolation	Cooling / O.T.P	-	Convection 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	-	-40 ~ +70°C(With 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	22.5 x 108 x 95 / 200g			
Safety	-	-	cUL, CE, CB cUL, CE, CB cUL, CE, CB			
Emission	Conducted Emission	-	Complies with EN55011/EN55022-B, FCC-B			

*note1 : Type A,AD only

*note2 : Frequency 50/60Hz

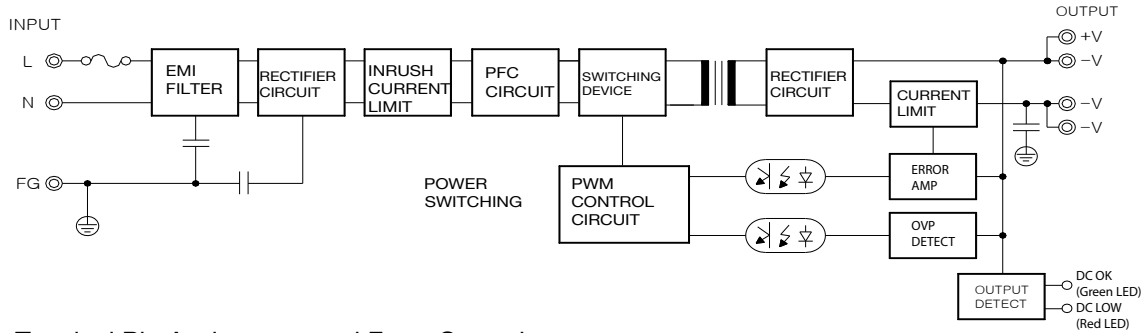




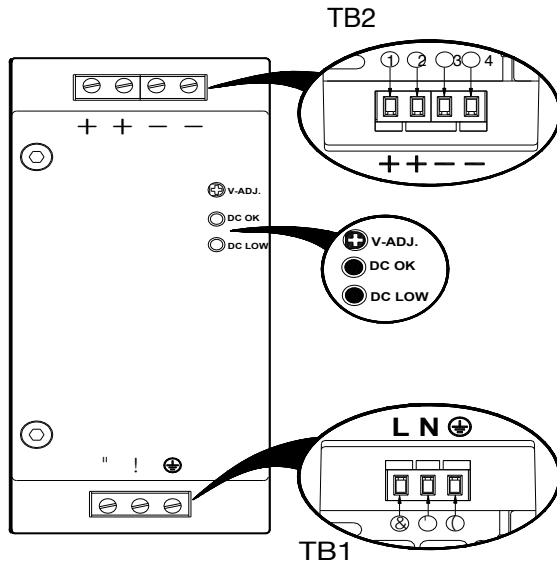
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1. BLOCK DIAGRAM



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	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





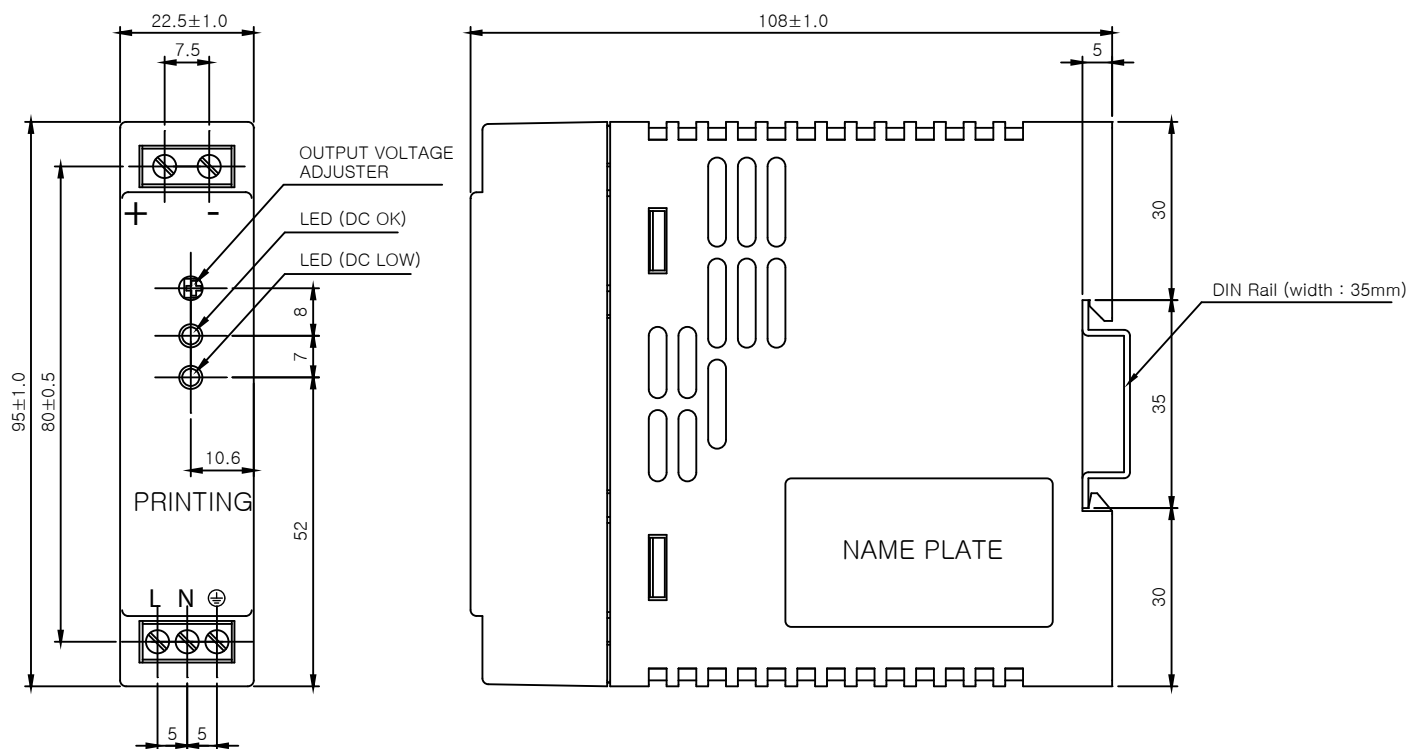
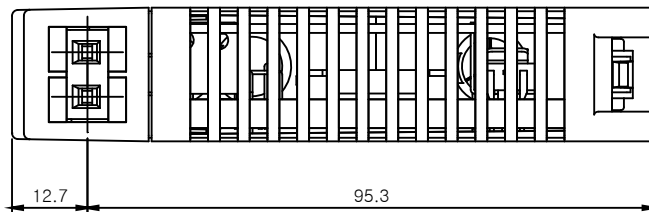
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AOFD15-S

- * Weight : 200g
- * Tolerance : ± 1
- * Dimensions in mm



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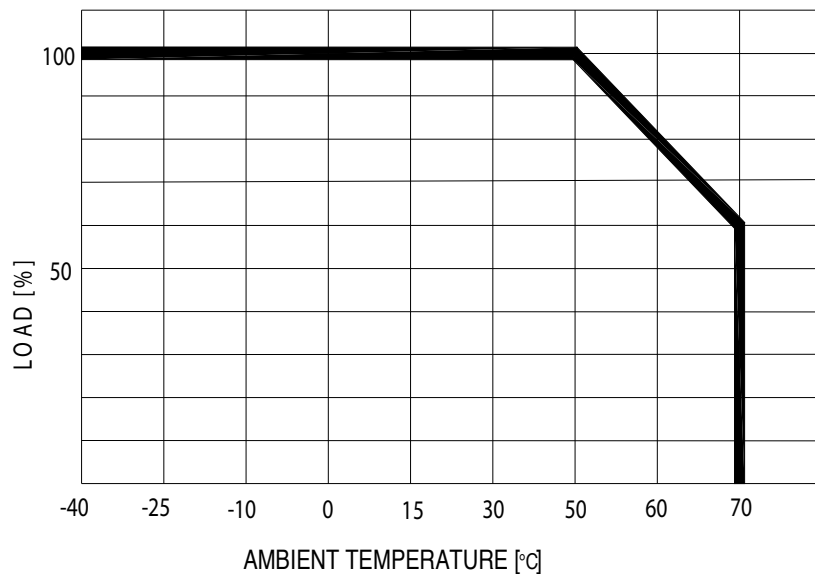
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Output Derating Curve

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

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