

ACP-P0002

120W 24VDC Single Output Industrial DIN Rail

Features

- Adapt to be Installed on TS-35/7.5 or TS-35/15 Mounting Rails
- Input Voltage Range: 90~264VAC / 127~370VDC
- Output DC Voltage: 24V
- Input AC Current (Typ.): 2.25A/115VAC , 1.3A/230VAC
- Output Current Range: 0~5A
- Output Rated Power: 120W
- Protection Overload: 105~130% Rated Output Power
- Protection Overvoltage: 29~33V
- Design to Meet: UL508, TUV BS EN/EN62368, EAC TP TC 004, BS EN/EN55032, BS EN/EN50082-2, BS EN/EN55035, BS EN/EN61204-3

Appearance





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Revision Table

Date	Revision	Content	By
2025/8/8	0.1	First Draft	Elio

ACT POWER TAIWAN
Preliminary

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120W 24VDC Single Output Industrial DIN Rail

Specification

Output Features	
DC Voltage	24V
Rated Current	5A
Current Range	0~5A
Rated Power	120W
Ripple & Noise (Max.)	120mVp-p
Voltage ADJ. Range	24~28V
Voltage Tolerance	±1.0%
Line Regulation	±0.5%
Load Regulation	±1.0%
Setup, Rise Time	1200ms, 60ms/230VAC 2500ms, 60ms/115VAC at Full Load
Hold Up Time (Typ.)	16ms/230VAC 10ms/115VAC at Full Load
Input Features	
Voltage Range	90~264VAC 127~370VDC [DC Input Operation Possible by Connecting AC/L(+), AC/N(-)]
Frequency Range	47~63Hz
Efficiency (Typ.)	88%
AC Current (Typ.)	2.25A/115VAC 1.3A/230VAC
Inrush Current (Typ.)	20A/115VAC 35A/230VAC
Leakage Current	<1mA/240VAC

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Specification

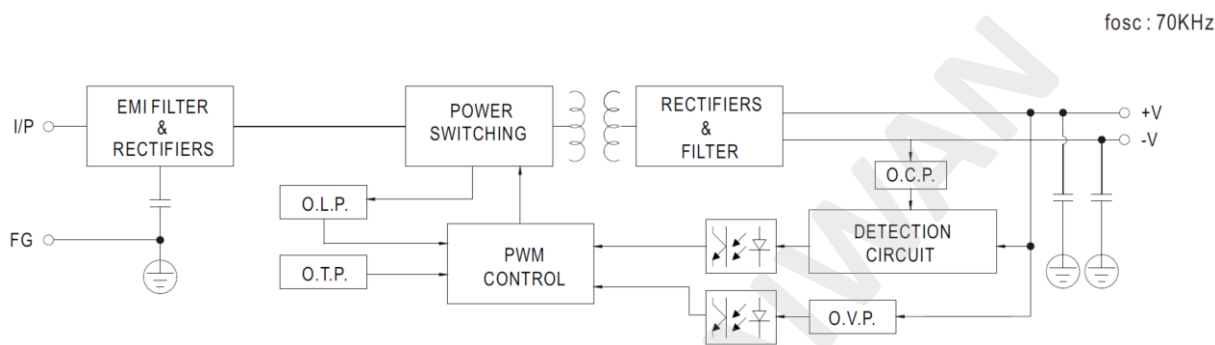
Protection	
Overload	105 ~ 130% Rated Output Power
	Protection Type: Constant Current Limiting, Recovers Automatically after Fault Condition is Removed
Over Voltage	29~33V
	Protection Type: Shut Down o/p Voltage, Re-Power on to Recover
Over Temperature	Shut Down o/p Voltage, Re-power on to Recover
Others	
MTBF	2636.8K hrsmin. Telcordia SR-332 (Bellcore); 453.3K hrsmin. MIL-HDBK-217F(25°C)
Dimension (WxHxD)	40 x 125.2 x 113.5 mm

ACT POWER TAIWAN
Preliminary

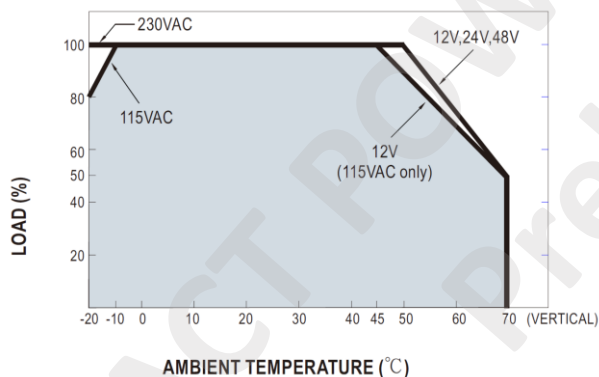
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120W 24VDC Single Output Industrial DIN Rail

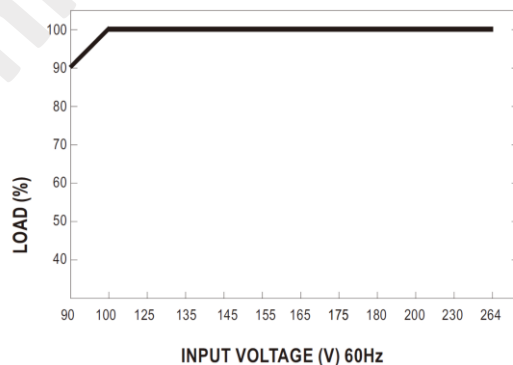
Block Diagram



Derating Curve



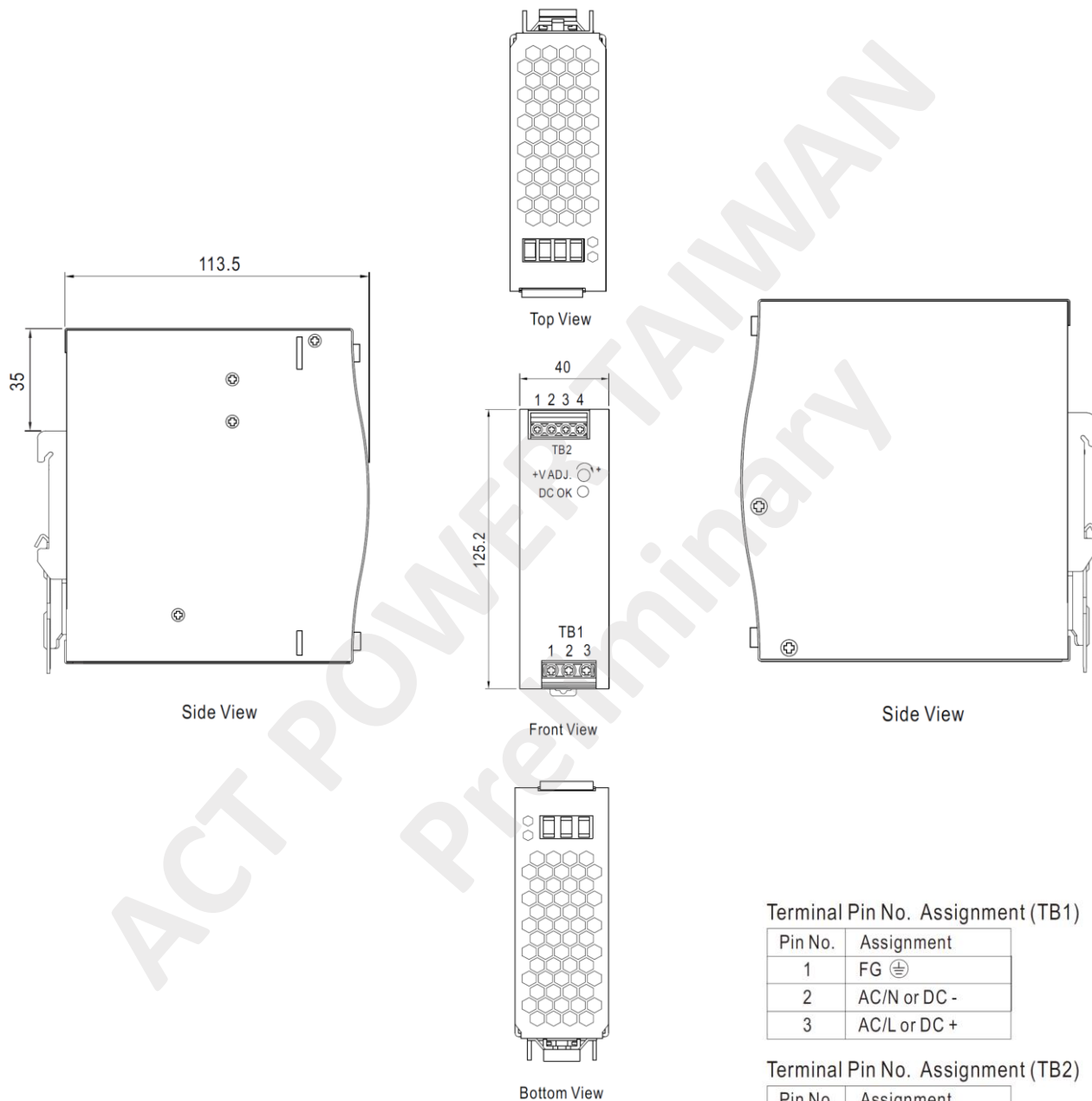
Static Characteristics



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Mechanical Specification (mm)



Terminal Pin No. Assignment (TB1)

Pin No.	Assignment
1	FG $\oplus$
2	AC/N or DC -
3	AC/L or DC +

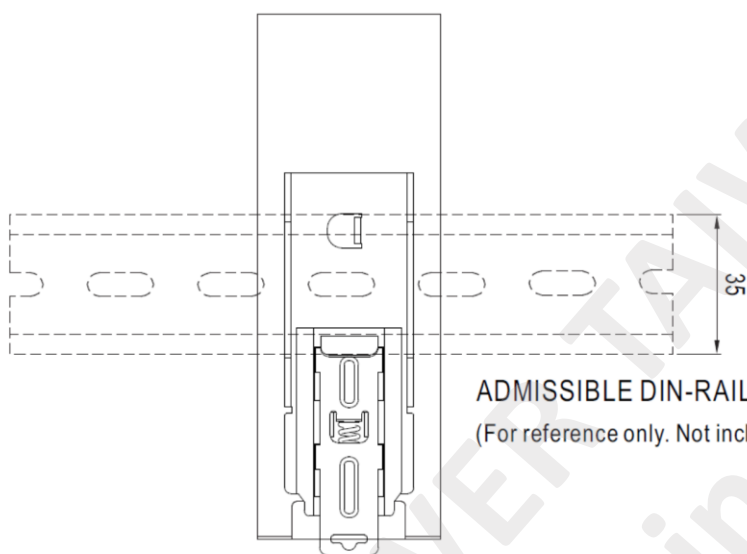
Terminal Pin No. Assignment (TB2)

Pin No.	Assignment
1,2	DC OUTPUT -V
3,4	DC OUTPUT+V

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Installation Instruction



ADMISSIBLE DIN-RAIL: TS35/7.5 OR TS35/15
(For reference only. Not included with unit.)

Back View

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Environment Compliance

Operating Temp.	-20°C to +70°C
Operating Humidity	20 ~ 95% RH Non-Condensing
Storage Temp.	-40°C to +85°C
Storage Humidity	10 ~ 95% RH
Temp. Coefficient	±0.03% / °C (0~50°C)
Vibration	10 ~ 500 Hz, 2G 10min./1cycle, 60 min. Each Along X,Y,Z Axes Mounting: Compliance to IEC60068-2-6

Environmental performance may vary according to the integration method or final integration scenario.

Safety Standards

Standards	UL508, TUV BS EN/EN62368-1, EAC TP TC 004 Approved; (Meet BS EN/EN60204-1)
Withstand Voltage	I/P-O/P, I/P-FG, O/P-FG: > 100M Ohms / 500VDC / 25°C / 70%RH
EMC Emission	Compliance to BS EN/EN55032 (CISPR32), BS EN/EN61204-3 Class B, BS EN/EN61000-3-2-3, EAC TP TC 020
EMC Immunity	Compliance to EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55035, EN/EN61000-6-2 (BS EN/EN50082-2), BS EN/EN61204-3, Heavy Industry Level, EAC TP TC 020
MTBF	2636.8K hrs min. Telcordia SR-332 (Bellcore); 453.3K hrs min. MIL- HDBK-217F (25°C)



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Deliverables

1	120W Single Output Industrial DIN Rail
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Ordering Information

Model Name	Description	Unit
ACP-P0002	120W 24VDC Single Output Industrial DIN Rail	1

Disclaimer

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