

ACP-P0005

240W Single Output Power Supply

Features

- Universal AC Input/Full Range
- Built-In Active PFC Function
- Protections Sort Circuit/ Overload/ Over Voltage/ Over Temperature
- Cooling by Free Air Convection
- Can Be Installed on DIN Rail TS-35/7.5 or 15
- UL508(Industrial Control Equipment) Approved
- BS EN/EN61000-6-2(BS EN/EN50082-2) Industrial Immunity Level
- 100 % Full Load Burn-In Test
- Dimension (W x H x D) : 63 x 125.2 x 113.5 mm

Appearance





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Revision Table

Date	Revision	Content	By
2025/12/10	0.1	First Draft	Tommy

ACT POWER TAIWAN
Preliminary

ACP-P0005

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Specification

Output Data	
DC Voltage	24V
Rated Current	10A
Current Range	0- 10A
Rated Power	240W
Ripple & Noise (Max)	150mVp-p
Voltage ADJ Range	24-28V
Voltage Tolerance	±1.0%
Line Regulation	±0.5%
Load Regulation	±1.0%
Setup Rise Times	1500ms, 100ms/230VAC
Hold Up Time (Typ.)	28ms/230VAC
Input Data	
Voltage Range	90 - 264VAC
Frequency Range	47 - 63Hz
Power Factor (Typ.)	PF>0.98/115VAC, PF>0.95/230VAC at Full Load
Efficiency	88.5%
AC Current (Typ.)	2.5A/115AC
Inrush Current (Typ.)	20A/115AC
Leakage Current	<1mA/240AC

ACP-P0005

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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, Recovers Automatically after Temperature Goes Down
Environment	
Working Temp	-20 to +70 (Refer to "Derating Curve")
Working Humidity	20 to 95% RH Non-Condensing
Storage Temp., Humidity	-40 to +85 , 10 to 95% RH
Temp Coefficient	$\pm 0.03\%/^{\circ}\text{C}$ (0 - 50°C)
Vibration	Component:10 - 500Hz, 2G 10 min./1 Cycle, 60min. Each Along X,Y, Z Axes; Mounting: Compliance to IEC60068-2-6

ACP-P0005

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Compliance

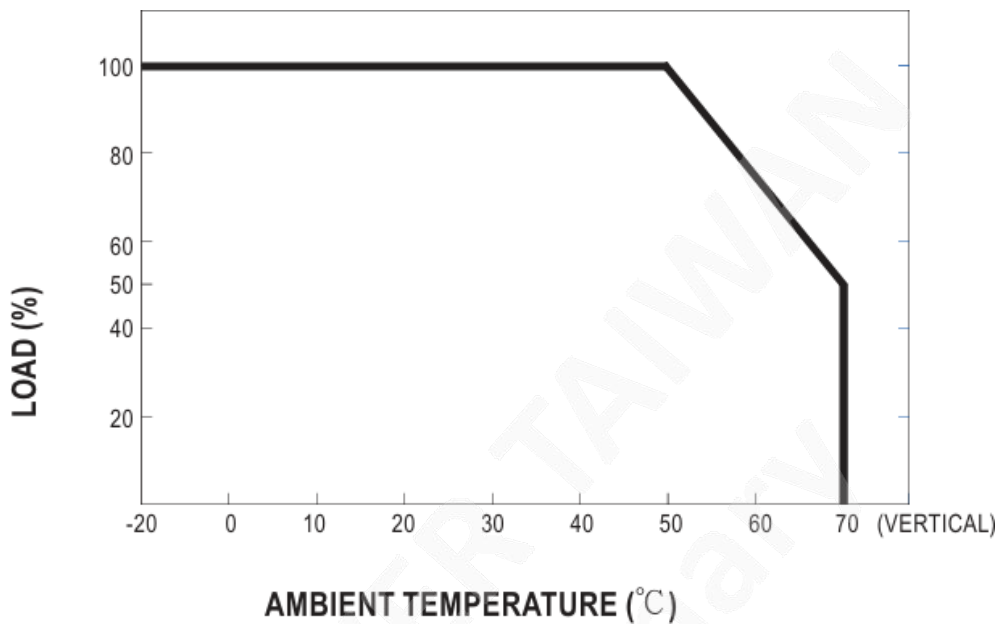
Safety Standards	UL508,TUV BS EN/EN62368-1, BSMI CNS14336-1, BIS IS13252(Part1): 2010/IEC 60950-1:2005
Withstand Voltage	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC
Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 500VDC / 25 / 70% RH °C
EMC Emission	Compliance to BS EN/EN55032 (CISPR32), BS EN/EN61204-3 Class B, BS EN/EN61000-3-2,-3,EACTPTC020, CNS13438,
EMC Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55035, EN61000-6-2 (EN50082-2), BS EN/ BS EN/ BS EN/ BS EN/ BS EN/ (for48Vonly) EN61204-3, Heavy Industry Level,EACTPTC020,
MTBF	1645.2K Hrs Min. Telcordia SR-332 (Bellcore) ; 230.2K Hrs Min. MIL-HDBK-217F (25)°C

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

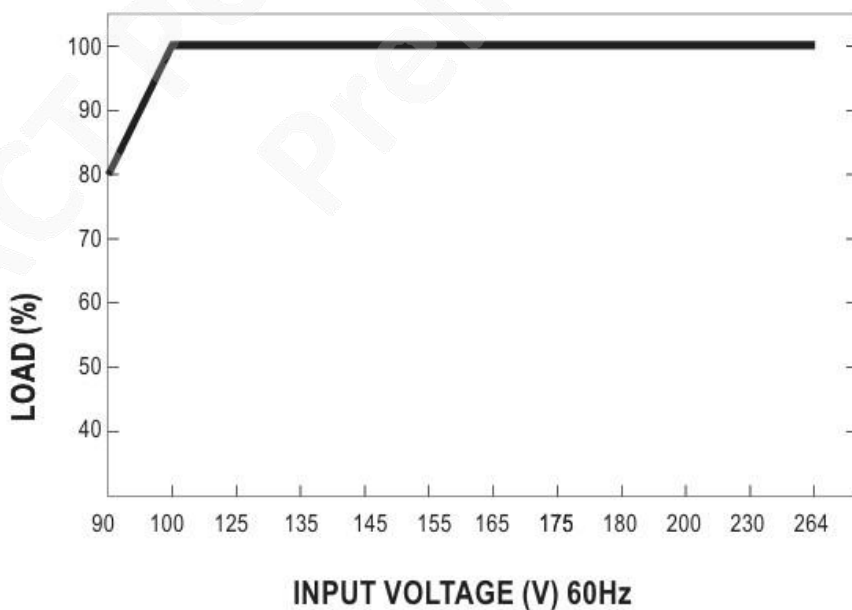
ACP-P0005

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Derating Curve



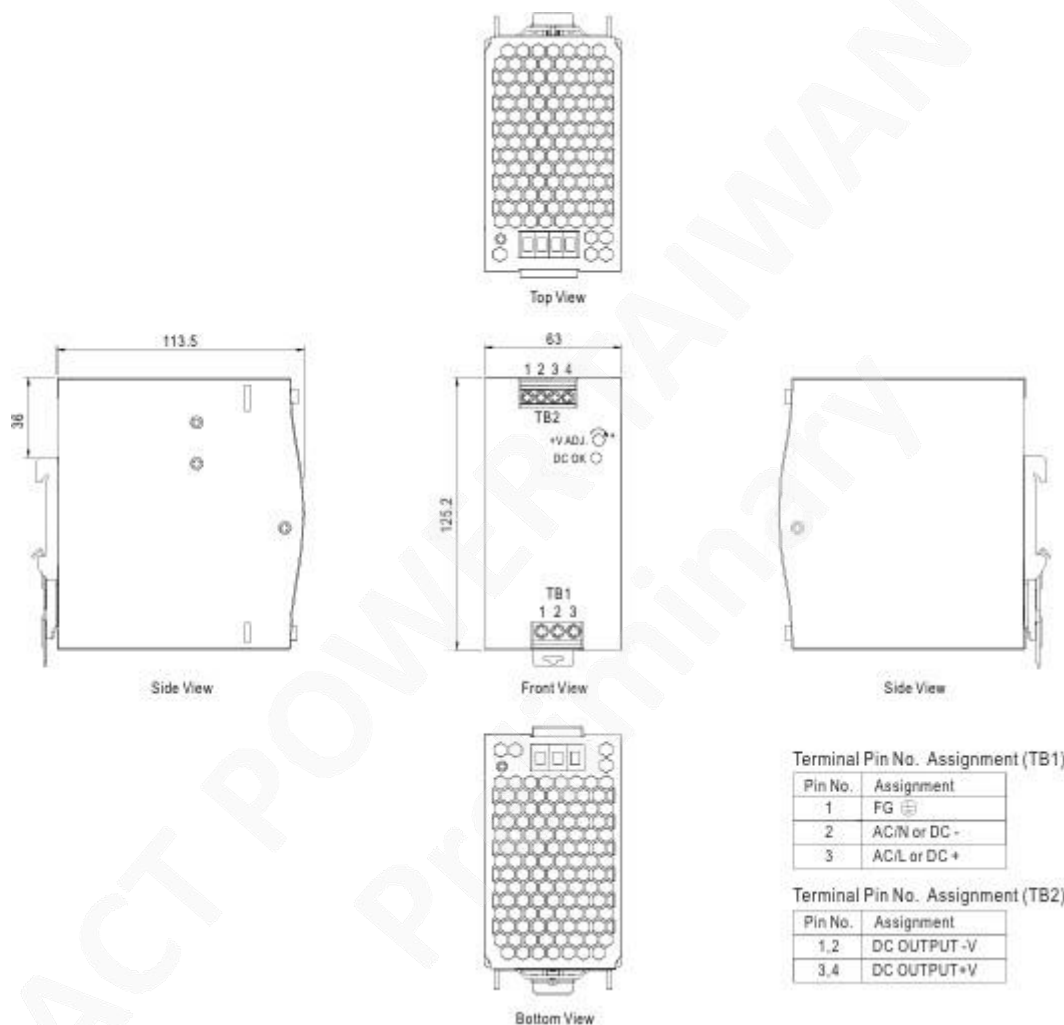
Output derating VS Input Voltage



ACP-P0005

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Mechanical Specification (mm)





ACP-P0005

240W Single Output Power Supply

Deliverables

1	240W Single Output Power Supply
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Ordering Information

Model Name	Description	Unit
ACP-P0005	240W Single Output Power Supply	1

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