

DESCRIPTIONS

35W, AC/DC Enclosed Switching Power Supply







CA Report

UL62368-1

EN62368-1

BS EN62368-1

FEATURES

- Universal 85 264VAC or 120 370VDC input voltage
- Accepts AC or DC input (dual-use of same terminal)
- Operating ambient temperature range: -30 ℃ to +70℃
- Low standby power consumption, high efficiency
- High I/O isolation test voltage up to 4000VAC
- Low ripple & noise
- Output short circuit, over-current, over-voltage protection
- Over-voltage class III (designed to meet EN62477)
- · Operating altitude up to 5000m

APPLICATIONS

- Industrial
- LED
- Street light control
- Electricity
- Security

Selection Guide

Certification	Part No*	Output Power (W)	Nominal Output Voltage and Current (Vo/Io)	Output Voltage Adjustable Range(V)	Efficiency at 230VAC (%) Typ.	Capacitive Load (uF) Max.
EN/BS EN/UL	AE35-2B-05	35	5V/7A	4.5-5.5	86	8000
	AE35-2B-12	36	12V/3A	10.2-13.8	87	1500
	AE35-2B-15		15V/2.4A	13.5-18	88	1000
	AE35-2B-24		24V/1.5A	21.6-28.8	88	750

Note: *1. Use suffix "Q" for conformal coating.

2.If the terminal cover is required, please order "CPJ-032" for self-installation.

3. The product picture is for reference only. For details, please refer to the actual product.



Specifications

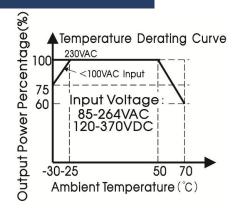
Product Specifications	Item		Operating Conditions		Min.	Тур.	Max.	Unit	
Input Specifications	Input Voltage Range		AC input		85		264	VAC	
			DC input		120		370	VDC	
	Input Voltage Frequency				47		63	Hz	
	Input Current		115VAC				0.8		
			230VAC				0.6	_	
	Inrush Current		115VAC	Cold start		30		A	
			230VAC			50			
	Leakage Current		240VAC		<0.75mA				
	Hot Plug				Unavailable				
				5V		±2			
	Output Voltage Accuracy		Full load range	12V/15V/24V		±1			
	Line Regulation		Full load			±0.5		%	
	Load Regulation			5V		±1			
			0% - 100% load	12V/15V/24V		±0.5			
	Ripple & Noise*		20MHz	5V		80		mV	
			bandwidth (peak-to-peak value)	12V/15V		120			
				24V		150			
	Temperature Coefficient		,			±0.03		%/℃	
Output	Minimum Load				0			%	
Specifications	Stand-by Power Consumption		230VAC				0.3	W	
	Hold-up Time		115VAC		8				
			230VAC		30			-	
	Short Circuit Protection		Recovery time <5s circuit disappear.		Hio	Hiccup, continuous, self-recover			
	Over-current Protection				120%-200% Io, self-recover			r	
	Over-voltage Protection		5V ≤6.75VDC (Hiccup, self-recov			er)			
			12V		≤16.2VDC (Hiccup, self-recover)				
			15V		≤21.75VDC (Hiccup, self-recover)				
			24V		≤33.6VDC (Hiccup, self-recover)				
General		Input - 🕀			2000				
	Isolatio n	Input - output		Electric strength test for 1min., leakage current <5mA				VAC	
		Output - 🕀	_		1250				
Specifications	Insulati Input - 🕀				100				
opecifications	on	Input - output			100				
	Resista Output - 🕀		At 500VDC		100			- ΜΩ	

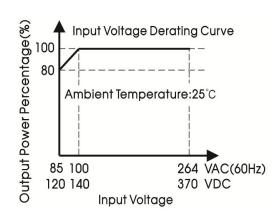
	Operating Temperature			-30		+70	
	Storage Temperature			-40		+85	°C
	Storage Humidity	Non-condensing				95	%RH
	Operating Humidity			20		90	
General	Switching Frequency				65		KHz
Specifications		-30°C to -25°C	85VAC-100VAC	5			07.105
	Power Derating	+50°C to +70°C		2			%/°C
		85VAC - 100VAC		1.33			%/VAC
	Safety Class			CLASS I			
	MTBF	MIL-HDBK-217F@25℃		≥300,000 h			
	Case Material	Metal (AL1100, SGCC)					
Mechanical	Dimension	99.00 x 82.00 x 30.00					
Specifications	Weight	155g (Typ.)					
•	Cooling Method	Free air convection					
Note: *The "Tip and b	parrel method" is used for ripp	le and noise test, output p	arallel 47uF electrolytic	capacitor and 0	.1uF ceramic c	apacitor.	

Electromagnetic Compati	bility	(EMC)
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	Emissions (EMI)	CE	CISPR32/EN55032	CLASS B			
		RE	CISPR32/EN55032	2 CLASS B			
		Harmonic current	IEC/EN61000-3-2	00-3-2 CLASS A			
		ESD	IEC/EN61000-4-2	Contact ±6KV/Air ±8KV	perf. Criteria A		
Electromagnetic		RS	IEC/EN61000-4-3	10V/m	perf. Criteria A		
Compatibility		EFT	IEC/EN61000-4-4	±2KV	perf. Criteria A		
(EMC)	Immunity (EMS)	Surge	IEC/EN61000-4-5	line to line ±2KV/line to PE ±4KV	perf. Criteria A		
(=: : =)		CS	IEC/EN61000-4-6	10 Vr.m.s	perf. Criteria A		
		MS	IEC/EN61000-4-8	30A/m	perf. Criteria A		
		Voltage dip, short interruption and voltage variation	IEC/EN61000-4-11	0%, 70%	perf. Criteria B		

Characteristic Curve

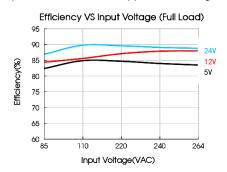


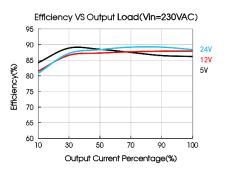




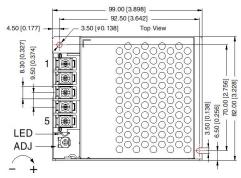
Note: 1. With an AC input voltage between 85 -100VAC and a DC input between 120-140VDC the output power must be derated as per the temperature derating curves;

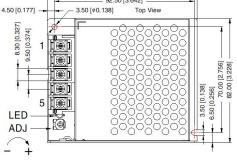
2. This product is suitable for applications using natural air cooling.

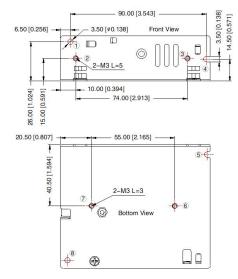




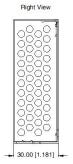
Dimensions and Recommended







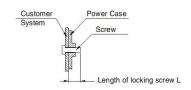




Pin-Out					
Pin	Mark				
1	AC(L)				
2	AC(N)				
3	(
4	-Vo				
5	+Vo				

Position	Screw Spec.	Length of locking screw L(max)	Torque(max)
2-3	M3	5mm	0.4N · m
6-7	M3	3mm	0.4N · m

1 - 8 any position must be connected to the earth(+)



Note:

Unit: mm[inch]

ADJ: Output adjustable resistor Wire range: 22–12AWG

Connector tightening torque: M3.5, Max 0.8N · m

General tolerances: $\pm 1.00[\pm 0.039]$



Note:

- 1. Unless otherwise specified, parameters in this datasheet were measured under the conditions of Ta=25°C, humidity<75% RH with nominal input voltage and rated output load;
- 2. The room temperature derating of 5°C/1000m is needed for operating altitude greater than 2000m;
- 3. All index testing methods in this datasheet are based on our company corporate standards;
- 4. In order to improve the efficiency at high input voltage, there will be audible noise generated, but it does not affect product performance and reliability;
- 5. We can provide product customization service, please contact our technicians directly for specific information;
- 6. Products are related to laws and regulations: see "Features" and "EMC";
- 7. The out case needs to be connected to PE () of system when the terminal equipment in operating;
- 8. The output voltage can be adjusted by the ADJ, clockwise to increase;
- 9. Our products shall be classified according to ISO14001 and related environmental laws and regulations, and shall be handled by qualified units;
- 10. The power supply is considered a component which will be installed into a final equipment. All EMC tests should be confirmed with the final equipment. Please consult our FAE for EMC test operation instructions.