Universal AC Input Switchers

AEC series

25 Watts External



CE Marked - LVD & EMC 35 Watts Peak Power 90-264 V AC Universal Input Short Circuit Protected LED Indication EN55022 Level B EMC Single & Multi Outputs

Specification

Input Voltage	• 90-264 V AC (120-370 V DC)
Input Frequency	• 47-63 Hz
Inrush Current	Cold start 18 A max 132 V AC, 36 A max 264 V AC
Hold Up Time	 10 ms at 110 V AC, 60 ms typical at 230 V AC
Earth Leakage Current	• 0.4 mA @ 230 V AC
Output Voltage	See Table (not adjustable)
Output Power	 25 W at +40 °C ambient (35 W peak for 60 secs - 5% duty cycle)
Line Regulation	See Table
Load Regulation	See Table
Ripple & Noise	See Table
Short Circuit and	
Overload Protection	Primary power limited 80 W P in max, 40 W P out max
Overvoltage Protection	 +5 V O/P, 6.25 V ±0.65 V & standard on all 24 & 48 V models
Temperature Coefficient	• 0.02%/°C
Efficiency	• 70% typical (63% min for AEC25US05)
Operating Temperature	• 0 °C to +40 °C at full load
Storage Temperature	• -40 °C to +85 °C
Relative Humidity	• 5% to 95% non-condensing
EMC	FCC, VDE 0871 level B, EN 55022 level B radiated & Conducted noise
	EN61000-4-2,-4 & -5 level 3
	IEC801-2 level 3 & IEC 801-3 level 2
Weight	• 450g
Case Material	General electric lexan, black, UL94V0 flammability rated
Safety Approvals	 UL1950, CSA 22.2 234/950 certified, EN60950/IEC950 registered, VDE0805, BABT
MTBF	 150,000 hrs MIL-HDBK-217 F @ 25 °C and full load

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Output Voltage & Current Ratings

Max.	Output		Output Currents			Total	Model
Power	Voltage	Minimum ⁽⁴⁾	Maximum ⁽⁵⁾	Peak ⁽⁶⁾	Pk-Pk ⁽⁷⁾	Regulation ⁽⁸⁾	Number
25 W	+5 V (A)	0 A	2.00 A	4.0 A	50 mV	+6%, -4%	
	+12 V (B)	0 A	1.00 A	2.0 A	120 mV	+7%, -5%	AEC25UT08
	-12 V (C)	0 A	0.20 A	1.0 A	120 mV	±5%	
25 W	+5 V (A)	0 A	2.00 A	4.0 A	50 mV	+6%, -4%	
	+15 V (B)	0 A	0.75 A	1.5 A	150 mV	+9%, -3%	AEC25UT10
	-15 V (C)	0 A	0.20 A	1.0 A	150 mV	±5%	
25 W	+5 V (A)	0 A	2.50 A	4.0 A	50 mV	+6%, -4%	4500511040
	+12 V (B)	0 A	1.00 A	2.0 A	120 mV	+7%, -5%	AEC25UD18
25 W	+5 V	0 A	4.00 A	5.0 A	50 mV	+6%, -4%	AEC25US05
25 W	+9.5 V	0 A	2.50 A	3.2 A	95 mV	±4%	AEC25US14 ⁽¹⁾
25 W	+12 V	0 A	2.00 A	2.5 A	120 mV	±4%	AEC25US12 ⁽¹⁾
25 W	+14 V	0 A	1.70 A	2.2 A	140 mV	±4%	AEC25US21 ⁽¹⁾
25 W	+16 V	0 A	1.50 A	2.0 A	160 mV	±4%	AEC25US16 ⁽¹⁾
25 W	+24 V	0 A	1.00 A	1.3 A	240 mV	±4%	AEC25US24 ⁽¹⁾
25 W	+48 V	0 A	0.50 A	0.7 A	240 mV	±4%	AEC25US48 ⁽¹⁾

Notes:

- (1) An alternative 48 inch cable assembly with 2.5 mm jack plug is available on single output models (except 5 V models). This option can be ordered by adding Suffix H1 at the end of the model number.
- (2) The green LED is ON to indicate the presence of output (A) & single output The LED turns off during output short circuit condition. To maintain user-system safety approvals, the input power
- (3) cable must be appropriately rated and approved by UL, CSA and VDE.
- Although the AEC25 models will operate with no load on the (4) outputs, some components temperatures increase under this condition. A minimum total load of 4 W is recommended.
- Natural convection cooling, 25 W maximum. (5)
- Peak output current lasting less than 60 seconds with duty cycle (6)less than 5%. During peak loading, output voltage may exceed total regulation limits

(7)	50 MHz bandwidth, peak to peak, measured differentially.
(8)	Total regulation is defined as the static output regulation at 2

25 °C including initial tolerance, line voltage within stated limits, load currents within stated limits, and output voltages adjusted to their factory settings For multi output models to maintain stated regulation:

$$25 \leq I(A) \leq 5$$
, for $I(B) > 0.3$

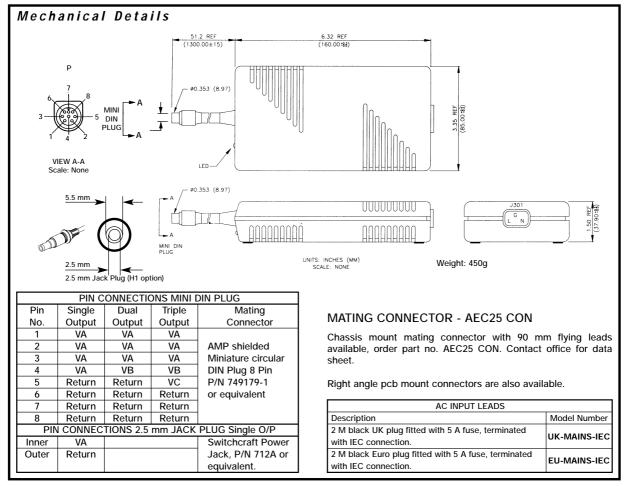
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$$0.5 \le \frac{I(A)}{I(B)} \le 5$$
, for $I(B) < 0.3$ A

To obtain full load from output (C), I(A) must be ≥ 0.5 A & I(B) must be greater than (I) taken from output (C).

А

Output (B) must be loaded to achieve regulation on output A (multi output units).



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