

Features

- Ultra High Efficiency (Up to 91%)
- Two Channels Output
- Active Power Factor Correction (0.99 Typical)
- Constant Current Output
- Lightning Protection
- All-Round Protection: SCP, OTP, OVP
- Waterproof (IP67)
- Comply With UL8750 & EN61347 Safety Regulations (Pending)



Description

The EUC-100D035ST operates from a $90 \sim 305$ Vac input range. It will provide up to a (0.35*2) A of output current and a maximum output voltage of 142 V for 100 W maximum output power. It is designed to be highly efficient and highly reliable. Features include lightning protection, short circuit protection, over voltage protection and over temperature protection.

Models

Output	Input	Max.	Max.	Typical Efficiency	Power Factor		Model Number (2)	
Current	Voltage	Voltage			110Vac	220Vac		
350 mA	90 ~ 305 Vac	142 Vdc	100 W	91%	0.99	0.95	EUC-100D035ST	

Note: (1) Measured at full load and 220 Vac input.

(2) A suffix –xxxx may be added to denote variations or modifications to the base product, where x can be any alphanumeric character or blank.

Input Specifications

Parameter	Min.	Тур.	Max.	Notes
Input Voltage	90 V	-	305 V	
Input Frequency	47 Hz	-	63 Hz	
Input AC Current	-	-	1.2 A	Measured at full load and 100 Vac input.
Input AC Current	-	-	0.6 A	Measured at full load and 220 Vac input.
Inrush current	-	-	50 A	At 230 Vac input

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Output Specifications

Parameter	Min.	Тур.	Max.	Notes
Output channel	-	2	-	
Output Current Range single channel I _O = 350mA	332 mA	-	368 mA	
Output Voltage Range	90 V	-	142 V	
Ripple and Noise (pk-pk)	-	-	2% V _O	Measured by 20 MHz bandwidth oscilloscope and the output paralleled a 0.1 uF ceramic capacitor and a 10 uF electrolytic capacitor.
Line Regulation	-	-	1%	
Load Regulation	-	-	3%	
Turn-on Delay Time	-	0.6 S	1 S	Measured at 110Vac input.
Tulli-oil Delay Tillie		0.5 S	0.8 S	Measured at 220Vac input.
Output Overshoot / Undershoot	-	-	10%	When power on or off.

Note: All specifications are typical at 25 °C unless otherwise stated.

Protection Functions

Parameter	Min.	Тур.	Max.	Notes
Over Temperature Protection		110 °C		Maximum temperature of components inside the case.
Over Voltage Protection	-	180 V	200 V	Latch mode. The power supply shall return to normal operation only after the power is turn-on again.
Short Circuit Protection	No damage shall occur when any output operating in a short circuit condition. The power supply shall be self-recovery when the fault condition is removed.			

General Specifications

Parameter	Min.	Тур.	Max.	Notes
Efficiency	88%	89%	-	Measured at full load, 110Vac input, 25°C ambient temperature, after the unit is thermally stabilized. It will be lower about 1%, if measured immediately after startup.
Efficiency	90%	91%	-	Measured at full load, 220Vac input, 25℃ ambient temperature, after the unit is thermally stabilized. It will be lower about 1%, if measured immediately after startup.
MTBF	350,000 hours			At 110Vac input, 80%Load and 25°C ambient temperature (MIL-HDBK-217F).
Life Time	50,000 hours			At 110Vac input, 80%Load and 45°C ambient temperature.
Dimensions Inches (L × W × H) Millimeters (L × W × H)	7.64 × 2.66 × 1.46 194 × 67.5 × 37			
Net Weight	- 1000 g		-	

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Note: All specifications are typical at 25 °C unless otherwise stated.



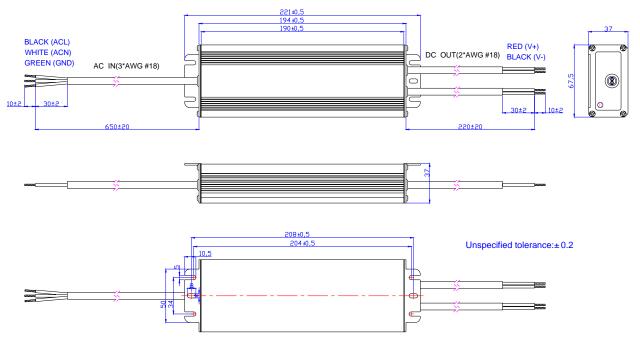
Environmental Specifications

Parameter	Min.	Тур.	Max.	Notes
Operating Temperature	-35 ℃	-35 ℃ -		Humidity: 10% RH to 100% RH
Storage Temperature	-40 ℃	-	+85 ℃	Humidity: 5% RH to 100% RH

Safety & EMC Compliance

Safety & Livic Compliance							
Safety Category	Country	Standard					
CUL	USA & Canada	UL8750 Compliance to UL1310 Class2, UL1012 UL953, CAN/CSA-C22.2 No. 0, CSA-C22.2 No. 107.1, CSA-C22.2 No. 250.0					
CE	Europe	EN61347-1, EN61347-2-13					
EMI Sta	ndards	Notes					
EN 55015:1998, +A1:2000 +A2:2003, Class B CISPR 22:2003, Class B AS/NZS CISPR 22: 2004, Class B		Conducted emission Test & Radiated emission Test with 6 dB margin					
EMS Standards		Notes					
EN 61000-3-2		Harmonic current emissions					
EN 61000-3-3		Voltage fluctuations & flicker					
EN 61000-4-2		Electrostatic Discharge (ESD): 8 kV air discharge, 4 kV contact discharge					
EN 610	00-4-3	Radio-Frequency Electromagnetic Field Susceptibility Test-RS					
EN 61000-4-4		Electrical Fast Transient / Burst-EFT					
EN 61000-4-5		Surge Immunity Test: AC Power Line: line to line 2 kV, line to earth 4 kV					
		Conducted Radio Frequency Disturbances Test-CS					
EN 610	00-4-6	Conducted Radio Frequency Disturbances Test-CS					
EN 610		Conducted Radio Frequency Disturbances Test-CS Power Frequency Magnetic Field Test					

Mechanical Outline



Specifications are subject to changes without notice.

Green Products

RoHS Compliance

Our products comply with the European Directive 2002/95/EC, calling for the elimination of lead and other hazardous substances from electronic products.

Revision History

Rev.	Description of Change	Changed Date	Note
V1.0	First Release	2009-12-03	

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