

Features

- High Efficiency (Up to 92%)
- Active Power Factor Correction (0.99 Typical)
- Constant Current Output
- Lightning Protection
- All-Round Protection: OVP, SCP, OTP
- Waterproof (IP67)
- Comply With UL8750 & EN61347 Safety Regulations



Description

The EUC-075SxxxST Series operate from a 90 ~ 305 Vac input range. These units will provide up to a 5 A of output current and a maximum output voltage of 214 V for 75 W maximum output power. They are designed to be highly efficient and highly reliable. Features include over voltage protection, short circuit protection and over temperature protection.

Models

Output Current (1)	Input Voltage	Max. Output Voltage	Max. Output Power	Typical Efficiency (2)	Power Factor		Model Number
					110Vac	220Vac	
350 mA	90 ~ 305 Vac	214 Vdc	75 W	92%	0.99	0.96	EUC-075S035ST
450 mA	90 ~ 305 Vac	166 Vdc	75 W	92%	0.99	0.96	EUC-075S045ST
700 mA	90 ~ 305 Vac	108 Vdc	75 W	91%	0.99	0.96	EUC-075S070ST
1050 mA	90 ~ 305 Vac	72 Vdc	75 W	90%	0.99	0.96	EUC-075S105ST
1400 mA	90 ~ 305 Vac	54 Vdc	75 W	90%	0.99	0.96	EUC-075S140ST
2100 mA	90 ~ 305 Vac	36 Vdc	75 W	89%	0.99	0.96	EUC-075S210ST
2800 mA	90 ~ 305 Vac	27 Vdc	75 W	89%	0.99	0.96	EUC-075S280ST
3750 mA	90 ~ 305 Vac	20 Vdc	75 W	88%	0.99	0.96	EUC-075S375ST
5000 mA	90 ~ 305 Vac	15 Vdc	75 W	88%	0.99	0.96	EUC-075S500ST

Notes: (1) Output current is adjustable at the factory from 50% to 100%.

(2) Measured at full load and 220 Vac input.

Input Specifications

Parameter	Min.	Typ.	Max.	Notes
Input Voltage	90 V	-	305 V	
Input Frequency	47 Hz	-	63 Hz	
Input AC Current	-	-	0.9 A	Measured at full load and 100 Vac input.
	-	-	0.45 A	Measured at full load and 220 Vac input.



LED Driver

Universal Input P/N

Customer P/N

UIC-075SxxxST

Output Specifications

Parameter	Min.	Typ.	Max.	Notes
Output Current Range				
$I_o = 350 \text{ mA}$	332 mA	350 mA	368 mA	
$I_o = 450 \text{ mA}$	428 mA	450 mA	472 mA	
$I_o = 700 \text{ mA}$	665 mA	700 mA	735 mA	
$I_o = 1050 \text{ mA}$	1000mA	1050mA	1100mA	
$I_o = 1400 \text{ mA}$	1330mA	1400mA	1470mA	
$I_o = 2100 \text{ mA}$	1995mA	2100mA	2205mA	
$I_o = 2800 \text{ mA}$	2660mA	2800mA	2940mA	
$I_o = 3750 \text{ mA}$	3565mA	3750mA	3935mA	
$I_o = 5000 \text{ mA}$	4750mA	5000mA	5250mA	
Output Voltage Range				
$I_o = 350 \text{ mA}$	107V	-	214V	
$I_o = 450 \text{ mA}$	83 V	-	166 V	
$I_o = 700 \text{ mA}$	54 V	-	108 V	
$I_o = 1050 \text{ mA}$	36 V	-	72 V	
$I_o = 1400 \text{ mA}$	27 V	-	54 V	
$I_o = 2100 \text{ mA}$	18 V	-	36 V	
$I_o = 2800 \text{ mA}$	13 V	-	27 V	
$I_o = 3750 \text{ mA}$	10 V	-	20 V	
$I_o = 5000 \text{ mA}$	7.5 V	-	15 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	-	-	3 S	
Output Overshoot / Undershoot	-	-	10%	When power on or off.

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

Protection Functions

Parameter	Min.	Typ.	Max.	Notes
Over Voltage Protection				
$I_o = 350 \text{ mA}$	-	250 V	-	Latch mode. The power supply shall return to normal operation only after the power is turn-on again.
$I_o = 450 \text{ mA}$	-	200 V	-	
$I_o = 700 \text{ mA}$	-	130 V	-	
$I_o = 1050 \text{ mA}$	-	85 V	-	
$I_o = 1400 \text{ mA}$	-	65 V	-	
$I_o = 2000 \text{ mA}$	-	48 V	-	
$I_o = 2800 \text{ mA}$	-	35 V	-	
$I_o = 3750 \text{ mA}$	-	26 V	-	
$I_o = 5000 \text{ mA}$	-	20 V	-	
Over Temperature Protection	-	110 °C	-	Maximum temperature of components inside the case.
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.			



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General Specifications

Parameter	Min.	Typ.	Max.	Notes
Efficiency	-	90%	-	For 700 mA output models, measured at full load and 110 Vac input
	-	91%	-	For 700 mA output models, measured at full load and 220 Vac input
MTBF	300,000 hours			At 110Vac input, full load and 25°C ambient temperature (MIL-HDBK-217F)
Life Time	100,000 hours			At 25°C ambient temperature
Dimensions				
Inches (L × W × H)	5.91 × 2.66 × 1.46			
Millimeters (L × W × H)	150 × 67.5 × 37			
Weight	-	750 g	-	

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

Environmental Specifications

Parameter	Min.	Typ.	Max.	Notes
Operating Temperature	-25 °C	-	+70 °C	Humidity: 10% RH to 100% RH
Storage Temperature	-40 °C	-	+85 °C	Humidity: 5% RH to 100% RH

Safety & EMC 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 Standards		Notes
EN 55015		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 61000-4-3		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
EN 61000-4-6		Conducted Radio Frequency Disturbances Test-CS
EN 61000-4-8		Power Frequency Magnetic Field Test
EN 61000-4-11		Voltage Dips
EN 61547		Electromagnetic Immunity Requirements Applies to Lighting Equipment



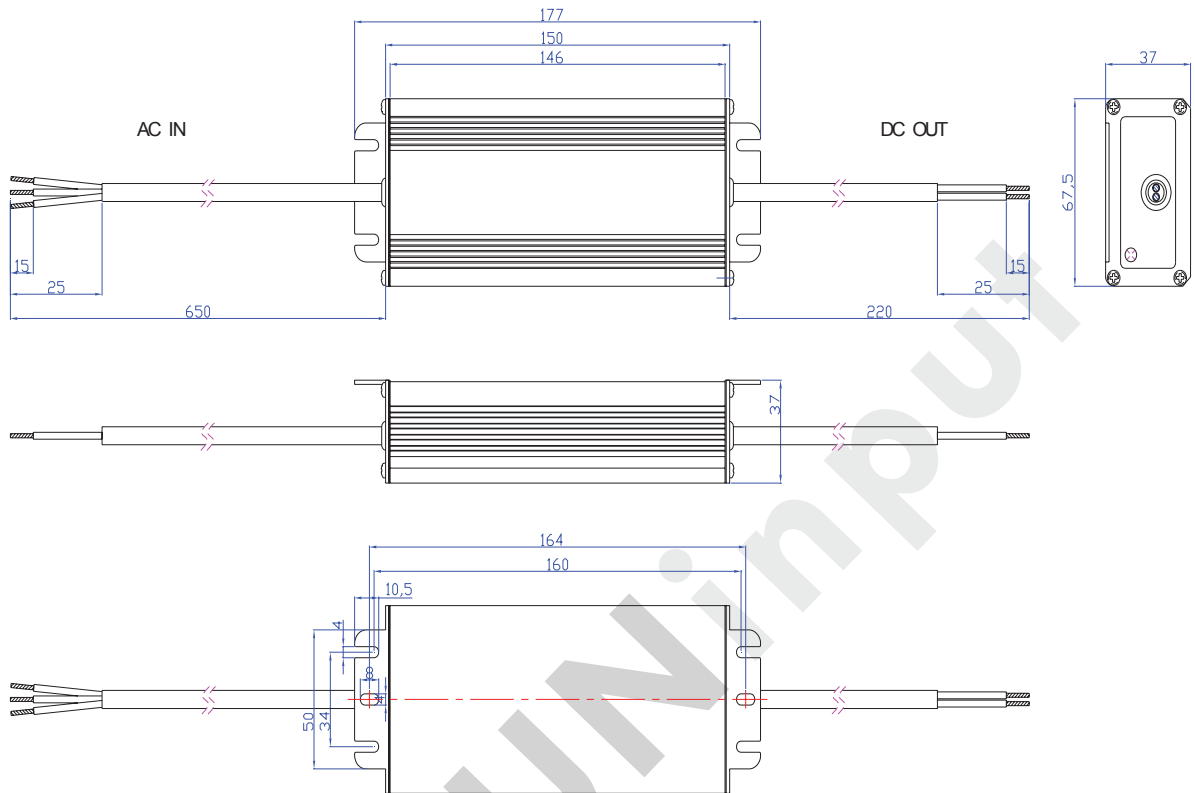
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Mechanical Outline



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.