

# TECHNICAL DATA SHEET

## 45W CC DRIVER

Output Rating: 42 - 55V, 750mA

Model No: ECA40V60060A090-S



### Input Specifications

S. No.	Parameter	Specification
1.	Nominal Input Voltage	240Vac, Single Phase
2.	Operating Frequency Range	47Hz to 60Hz
3.	Performance Input Voltage Range	140Vac - 285Vac
4.	Input Wattage	45W $\pm$ 3W
5.	Input Current @ 240Vac	200mA (Maximum)
6.	Total Harmonic Distortion @ 240Vac	< 10%
7.	Power Factor	> 0.95

### Output Specifications

S. No.	Parameter	Specification
1.	Output Voltage range	42V-55V
2.	Output Current	750 mAmp $\pm$ 5%
3.	LED Current Regulation from input Voltage 140Vac to 285Vac	$\pm$ 5%
4.	Output Voltage Ripple (Peak to Average)	< 10%
5.	Output Current Ripple (Peak to Average)	< 30%

### General Specifications

S. No.	Parameter	Specification
1.	Driver Efficiency	> 85%
2.	Electrical Class	Class II
3.	Ingress Protection	IP65
4.	Operational Temperature Range	-10°C to 50°C Ambient
5.	Max Case Temperature @ Tc point	80°C
6.	Case Temperature @ Tc point for warranty	70°C
7.	Product Life @ Tc 70°C	50000 Hours
	Product Life @ Tc 80°C	25000 Hours
8.	RoHS Compliance	Yes

### Protections and Driver Safety:

S. No.	Parameter	Specification
1.	Output Open Circuit Protection	Provided
2.	Output Short Circuit Protection	Provided
3.	Input High Voltage Cut-off	320V $\pm$ 10V
	Input High Voltage Reconnect	300V $\pm$ 10V
	Input 440V withstanding	>48 Hours
4.	Input Low Voltage ON Point	120 $\pm$ 10V
	Input Low Voltage Cut-off	105 $\pm$ 15V
5.	Over Temperature Protection (current fold-back)	> 80°C (Optional)
6.	Isolation between Input to Output	1.5KV
7.	Insulation Resistance	> 10MOhms
8.	Surge Protection(Differential Mode)	6KV
	Surge Withstanding (No of 5KV Pulses)	>500

### Other Specifications

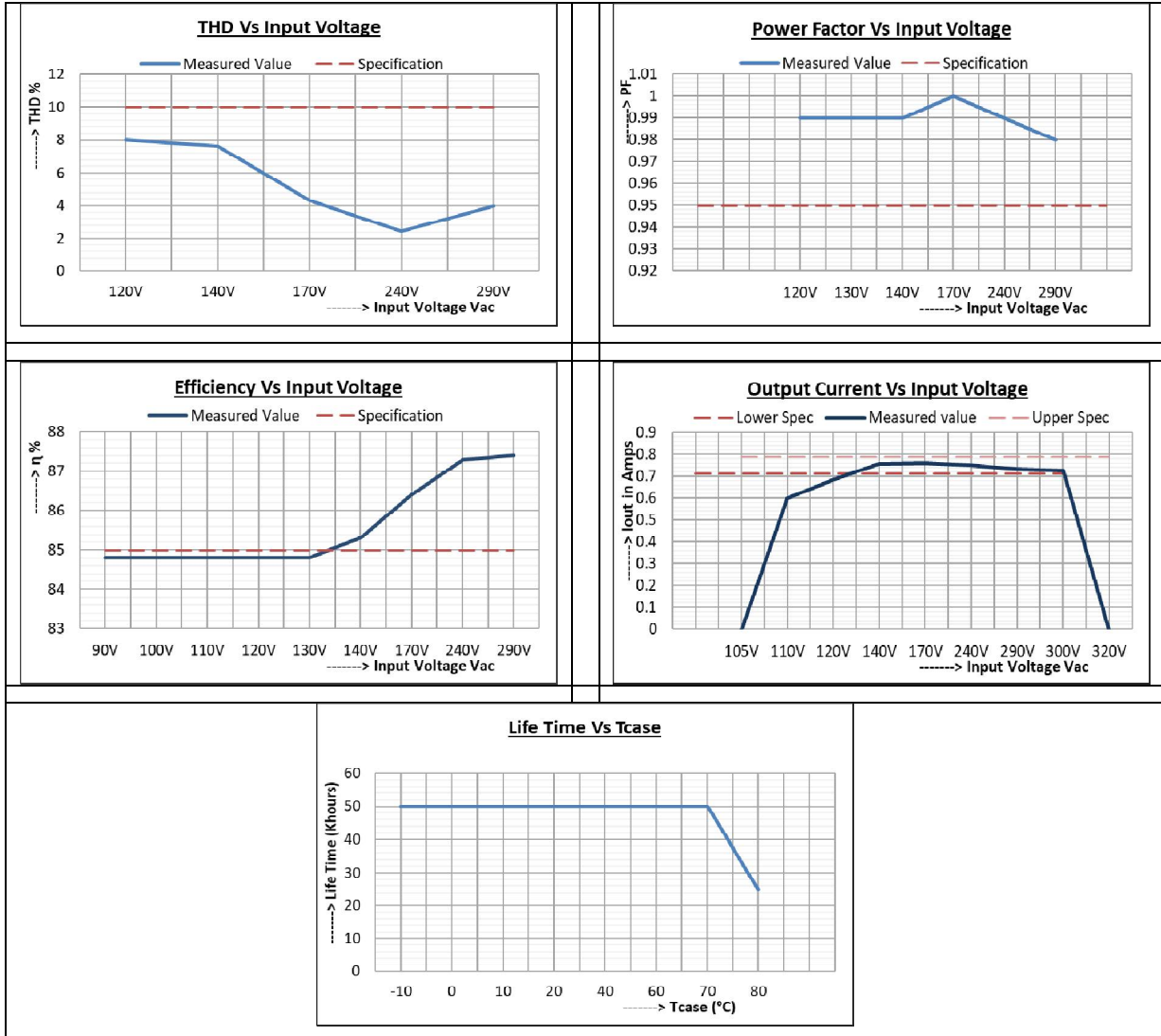
S. No.	Parameter	Specification
1.	Housing Material	Polycarbonate
2.	Dimensions(mm)	90mm x 50mm x 35mm (L x B x H)
3.	Weight	~250 grams
4.	Input Connection	<b>Phase:</b> 20/19/32, PTFE Wire, Blue <b>Neutral:</b> 20/19/32, PTFE Wire, Blue
	Output Connection	<b>LED '+':</b> 20/19/32, PTFE Wire, Red <b>LED '-':</b> 20/19/32, PTFE Wire, Black

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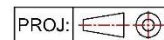
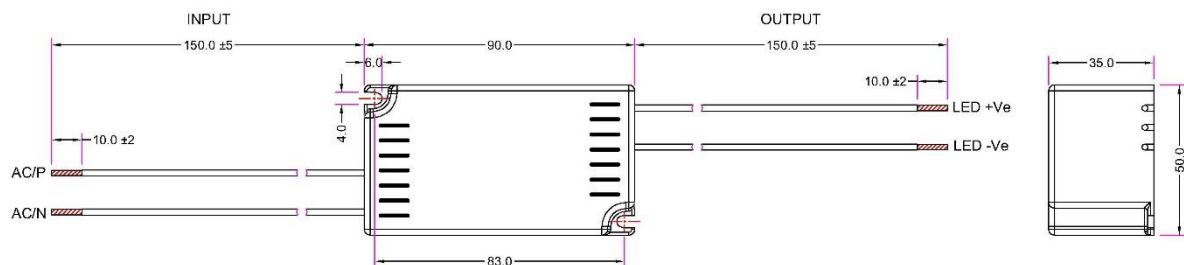
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Typical trend of Different Parameters:

### Dimensional Drawing:



Unspecified tolerances: ±1mm.  
All Dimensions are in mm.