

# TECHNICAL DATA SHEET

## 150W CC DRIVER

Output Rating: 36V - 48V, 2.8A

Model No: ECA36V54220A280-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	150W $\pm$ 6W
5.	Input Current @ 240Vac	660mA (Maximum)
6.	Total Harmonic Distortion @ 240Vac	< 10%
7.	Power Factor	> 0.95

### Output Specifications

S. No.	Parameter	Specification
1.	Output Voltage range	36 - 48V
2.	Output Current	2800 mAmp $\pm$ 5%
3.	LED Current Regulation from input Voltage 140Vac to 285Vac	$\pm$ 5%
4.	Output Voltage Ripple - Peak to Average (< 20KHz)	<1%
5.	Output Current Ripple - Peak to Average (< 20KHz)	<2%

### General Specifications

S. No.	Parameter	Specification
1.	Driver Efficiency	> 85%
2.	Electrical Class	Class I
3.	Ingress Protection	IP65
4.	Operational Temperature Range	-10°C to 50°C Ambient
5.	Max Case Temperature @ Tc point	90°C
6.	Case Temperature @ Tc point for warranty	80°C
7.	Product Life @ Tc 80°C	50000 Hours
	Product Life @ Tc 90°C	25000 Hours
8.	RoHS Compliance	Complied

### Protections and Driver Safety:

S. No.	Parameter	Specification
1.	Output Open Circuit Protection	Provided
2.	Output Short Circuit Protection	Provided
3.	Input Low Voltage ON Point	120 $\pm$ 10V
	Input Low Voltage Cut-off	110 $\pm$ 15V
4.	Input High Voltage Cut-off	320V $\pm$ 10V
	Input High Voltage Reconnect	300V $\pm$ 10V
	Input 440V Withstanding	> 24 Hours
5.	Over Temperature fold back	> 80°C (Driver Ambient)
	Over Temperature Cut-OFF	> 90°C (Driver Ambient)
6.	Isolation Between Input, Output to Protective GND	1.5KV
	Isolation Between Input to Output	1.5KV
7.	Insulation Resistance	> 10MOhms
8.	Surge Protection (Differential Mode)	6KV
	Surge Protection (Common Mode)	6KV
	Surge Withstanding (No of 5KV Pulses)	> 500

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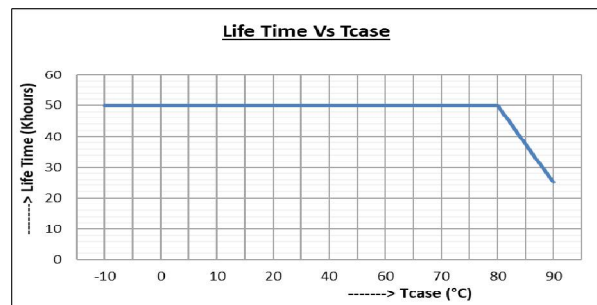
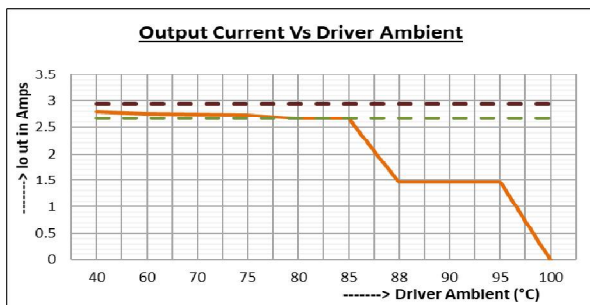
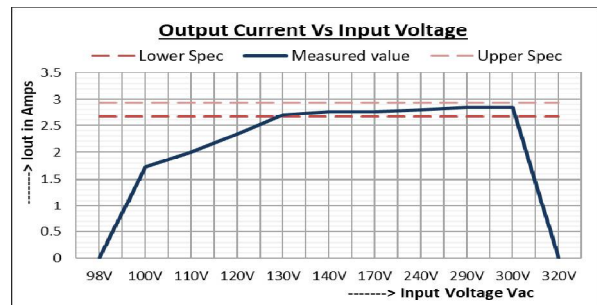
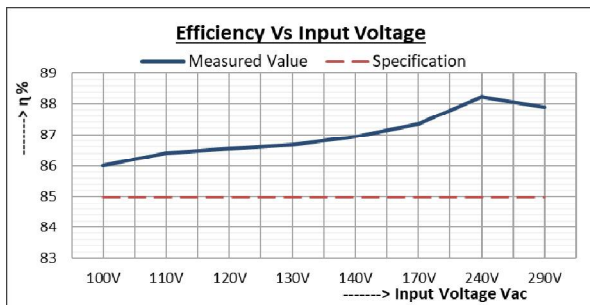
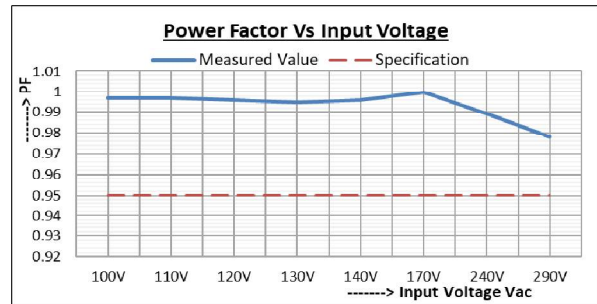
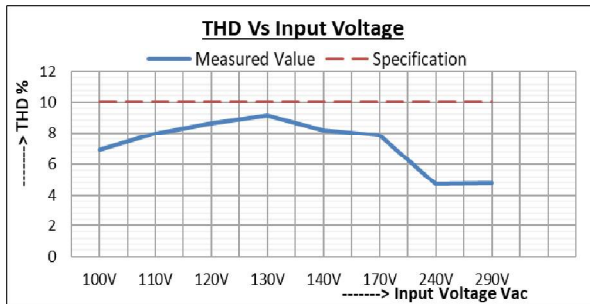
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### Other Specifications

S. No.	Parameter	Specification
1.	Housing Material	Aluminium Extrusion
2.	Dimensions(mm)	190mm x 65mm x 43mm (L x B x H)
3.	Weight	~ 850 grams
4.	Input Connection	<b>Phase:</b> 20/19/32, PTFE Wire Brown Colour – 20CM Length <b>Neutral:</b> 20/19/32, PTFE Wire Blue Colour – 20CM Length <b>Protective GND:</b> 20/19/32, PTFE Wire Yellow-Green/Green – 20CM Length
	Output Connection	<b>LED '+':</b> 20/19/32, PTFE Wire Red Colour – 20CM Length <b>LED '-':</b> 20/19/32, PTFE Wire Black Colour – 20CM Length

### Typical trend of Different Parameters:



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### Dimensional Drawing:

