

AAH80-C550

Small & Efficient Series & constant current LED driver

Product family features



- Flexible with 1 driver offers 4 output currents;
- Simple current selection via dip switch
- Input Voltage: 220 to 240VAC (maximum: 198-264 VAC)
- Output Frequency: 50-60Hz
- Output Power: 80Watt Max
- Output Voltage: 90Vdc to 230Vdc
- Output Current: 350mA to 550mA
- Efficiency: Up to 94%
- Warranty: 5years
- A rated lifetime of 50,000 hours @ Tc = 85 °C



Technical data

Electrical Parameter

Product Model	output Power (W)	Output Voltage (Vdc)	Output Constant Current (mA)	Current Accuracy (typ.)	Max Eff	Certification
AAH80-C550	80	90-230	350-550	±5%	94%	CE

Note: Maximum efficiency measured at 230VAC input, Current set at 550mA full load

Parts list

Part Number	AAH80W			
Output Current	350mA	400mA	500mA	550mA
Vf min	90V	90V	90V	90V
Vf max	230V	200V	160V	145V
Pomin	31.5W	36W	45W	49.5W
Pomax	80.5W	80W	80W	79.75W
Maximum voltage	320V			

Product datasheet

Technical data

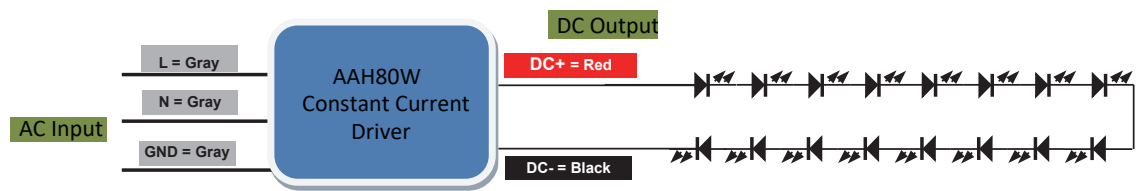
Electrical Specifications

	Item	Value	Remarks
Input	Nominal voltage	220-240V	
	Nominal frequency	50/60HZ	
	AC voltage range	198-264V	
	Nominal current	410mA	230V, Refer to Table 1 for details
	THD	<20%	@ full load
	Power Factor (PF)	0.95	Full load, 220 – 240 V, 50 Hz / see graphs
	Maximum voltage	320V	2 h maximum, unit might not operate in this abnormal condition
	Efficiency	94%	Full load, 220 – 240 V, 50 Hz / see graphs
	Protection class	I	Suitable for class I/II luminaire
output	Current Selection	350mA	Pin1-OFF, Pin2-OFF
		400mA	Pin1-ON, Pin2-OFF
		500mA	Pin1-OFF, Pin2-ON
		550mA	Pin1-ON, Pin2-ON
	Maximum voltage	< 250	w/ Open Circuit
	Nominal current range	350/400/500/550mA	
	Current accuracy	±5%	
	Current ripple 100Hz	< 10%	
	Nominal power range	31.5-74.8W	Partial Load. Refer to Table 1 for details
	Maximum power	80W	
environmen	Galvanic isolation	Non-isolated	
	Output PSTLM	≤1	
	Output SVM	≤0.4	
	Ambient temperature range ta	-40 ...50°C	
	Maximum case temperature tc	75°C	Measured on tc point indicated of the product label
	Max. case temp. in fault condition	110°C	
	Storage temperature range	-40 ...85°C	
	Relative humidity	5%-95%	Not condensing
	Surge transient protection	2KV	L/N LN/PE acc to. EN 61547 Clause 5.7
	Environmental rating	Indoo	
	IP rating	IP20	
	Mains switching cycles	>50000	
	Expected lifetime	50000	tcm _{ax} = 85°C, 10% failure rate
		100000	tcm _{ax} = 65°C, 10% failure rate

Product datasheet

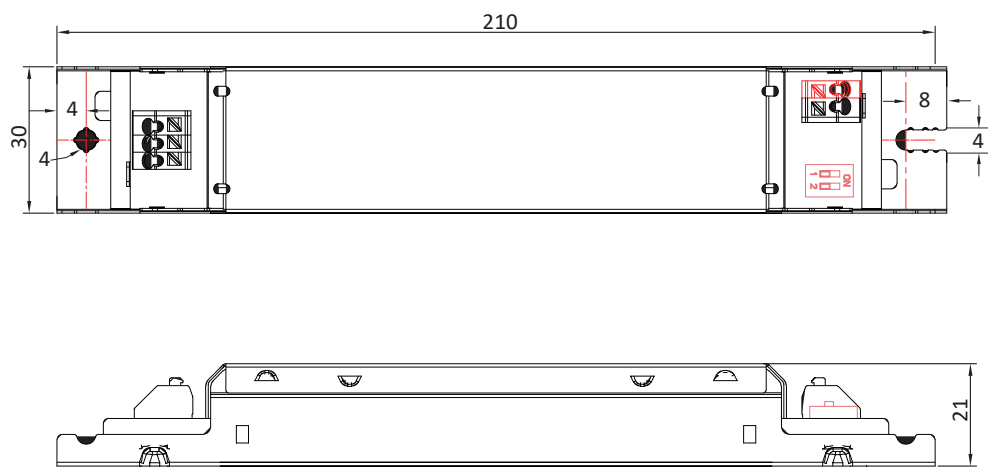
Typical Applications

Constant Current Driver



Appearance information

Product Size(mm)



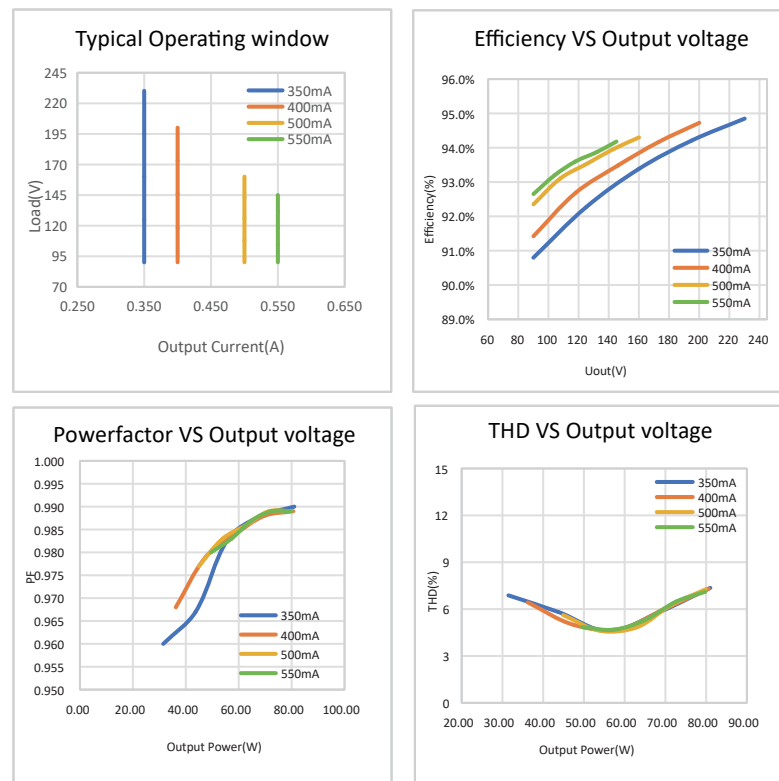
Note:

The independent LED drive conforms to the EMC standard. But it is not guaranteed to be qualified when the drive is mounted in the LED fixture

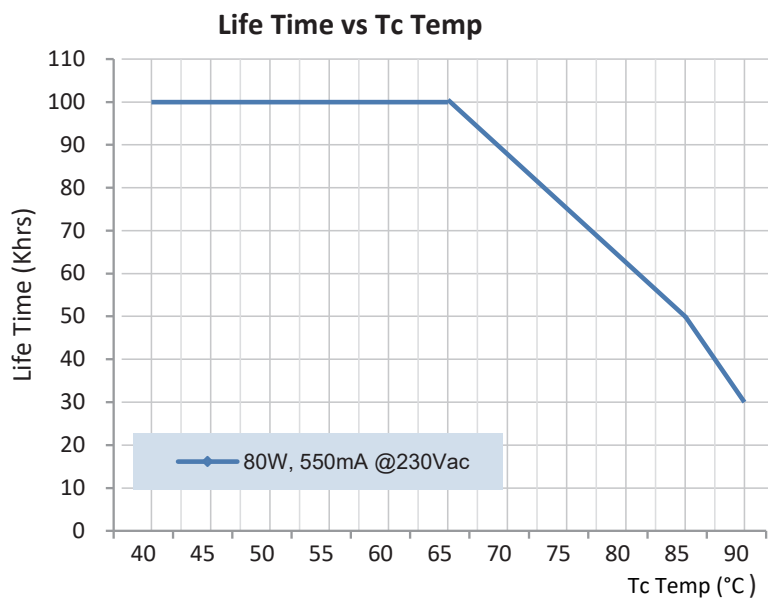
Please forgive us for any discrepancy due to the update of the specifications or the upgrade of the product. If you need the latest information, please contact our marketing department

Product datasheet

Characteristic Curve



Lifetime Curve



Installation

AC input wires cross section: 0.5~1.5mm²

DC output wires cross section: 0.75~1.5mm²

This product for indoor use only, it can be installed and fixed in the luminaires, connected with the wire. The length of output line should be less than 2m