

AAC40

Constant current LED driver(Non-isolated)

Product family features



- Input Voltage: 220 to 240VAC (maximum: 198-264 VAC)
- Output Frequency: 50-60Hz
- Output Power: 40Watt Max
- Output Voltage: 50Vdc to 143Vdc
- Output Current: 300/350mA
- Efficiency: Up to 91%
- Adopting a 22-millimeter flat plastic casing, it achieves a slim lamp design.



Technical data

Electrical Parameter

Product Modle	output Power (W)	Output Voltage (Vdc)	Output Constant Current (mA)	Current Accuracy (typ.)	Max Eff	Certification
AAC40-C350	40	50-120	350	±5%	91%	CE
AAC40-C300/350	40	80-143	300/350	±5%	91%	CE
AAC40-C350-A	40	50-120	350	±5%	91%	CE
AAC40-C300/350-A	40	80-143	300/350	±5%	91%	CE

Note:
1.Maximum efficiency measured at 230VAC input, Current set at 350mA full load.
2.The standard AAC series only supports Class II EMC standards, while models with the ***"-A" suffix** comply with Class I EMC standards.
3.The AAC40-C300/350 supports two output current levels (300mA and 350mA), adjustable via its DIP swit

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	220mA	230V, full load
	THD	<20%	@ full load
	Power Factor (PF)	≥0.95	Full load, 220 – 240 V, 50 Hz / see graphs
	Maximum voltage	270V	2 h maximum, unit might not operate in this abnormal condition
	Efficiency	91%	Full load, 220 – 240 V, 50 Hz / see graphs
	Power loss	4W	At 230V, Refer to Table 1 for details
	Protection class	II	Suitable for class I/II luminaire
	Inrush current	40A	twidth = 50 us typical (measured at 50% Ipeak)
Output(AAC40-C350)	Nominal voltage range	50-120V	
	Maximum voltage	< 250V	w/ Open Circuit
	Nominal current range	350mA	
	Current accuracy	±5%	
	Current ripple 100Hz	< 10%	
	Nominal power range	17.5-42W	Partial Load. Refer to Table 1 for details
	Maximum power	42W	
	Galvanic isolation	Non-isolated	
	Output PSTLM	≤1	
	Output SVM	≤0.4	
Output(AAC40-C300/350)	Nominal voltage range	80-143V	
	Maximum voltage	< 250V	w/ Open Circuit
	Nominal current range	300/350mA	DIP switch
	Current accuracy	±5%	
	Current ripple 100Hz	< 10%	
	Nominal power range	28-42.9W	Partial Load. Refer to Table 1 for details
	Maximum power	42.9W	
	Galvanic isolation	Non-isolated	
	Output PSTLM	≤1	
	Output SVM	≤0.4	

Product datasheet

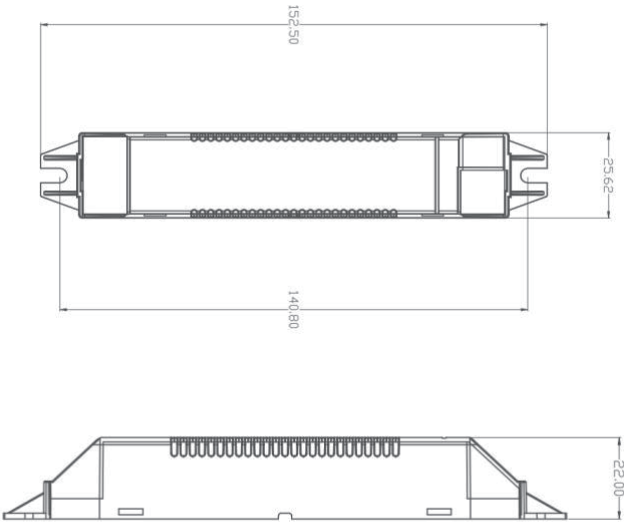
Technical data

Electrical Specifications

	Item	Value	Remarks
environmen	Ambient temperature range ta	-20 ...45°C	
	Maximum case temperature tc	90°C	Measured on tc point indicated of the product label
	Max. case temp. in fault condition	85°C	
	Storage temperature range	-20 ...85°C	
	Relative humidity	5%-95%	Not condensing
	Surge transient protection	1 2KV	L/N LN/PE acc to. EN 61547 Clause 5.7
	Environmental rating	Indoo	
	IP rating	IP20	
	Mains switching cycles	>50000	
	Expected lifetime	30000 hour 50000 hour	@tcmax = 75°C, 10% failure rate @tcmax = 65°C, 10% failure rate

Appearance information

Product Size



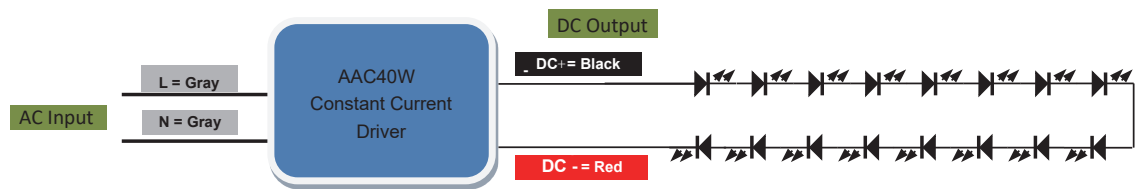
Note:

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

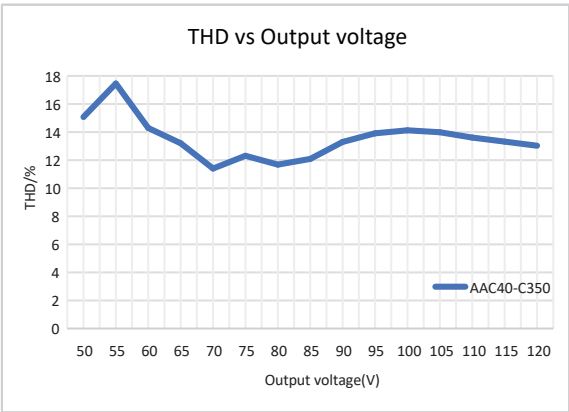
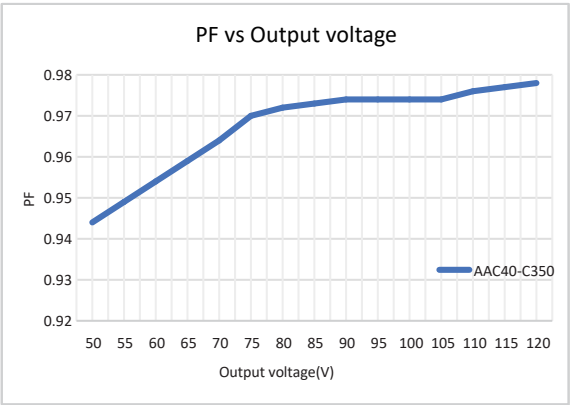
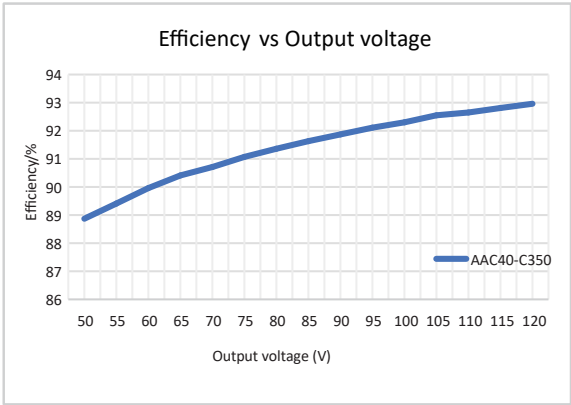
Typical Applications

Constant Current Driver



Characteristic Curve

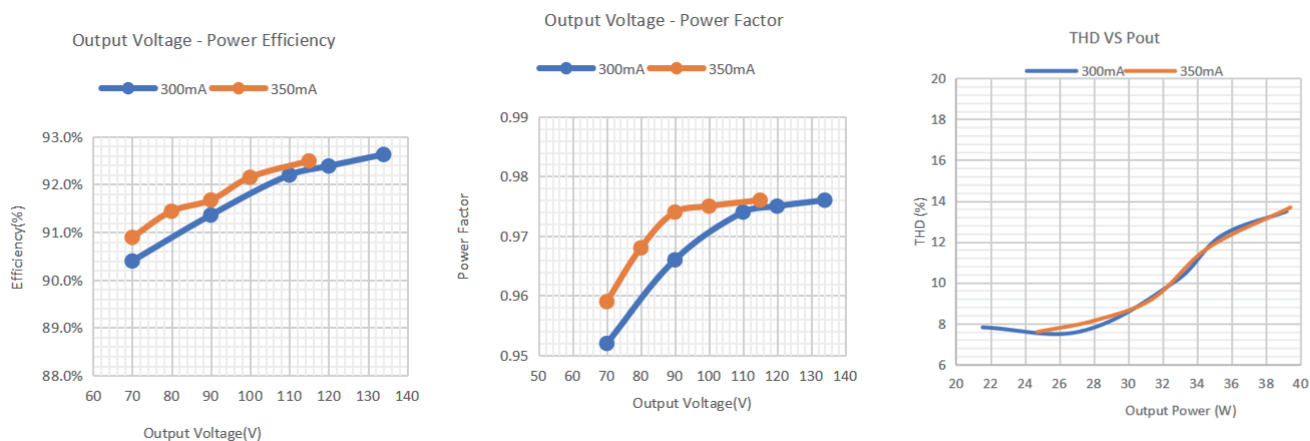
Note:AAC40-C350



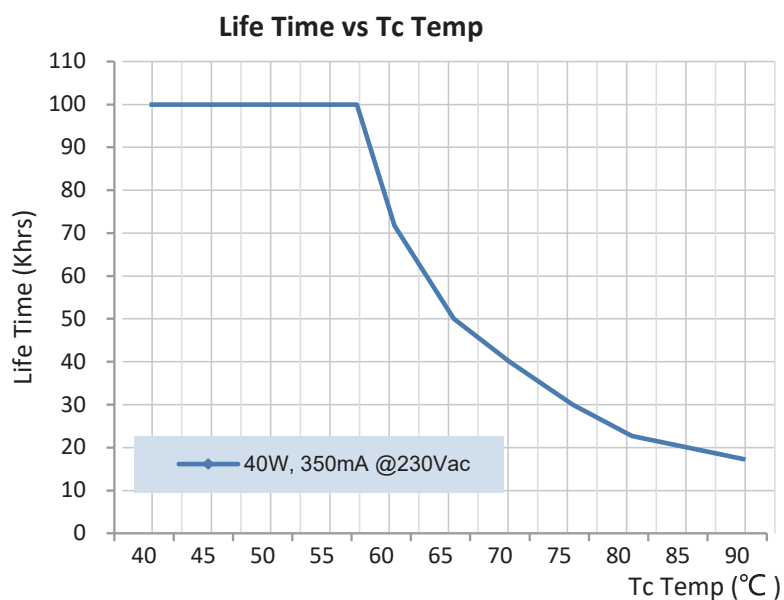
Product datasheet

Characteristic Curve

Note:AAC40-C300/350



Lifetime Curve



Installation

AC input wires cross section: 0.75~1.5mm²

DC output wires cross section: 0.5~1.5mm²

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