

COMPACT LED DRIVER / ON-OFF

ARVIK MINI 44

Technical model: AR-44-1050-MI-A-H



POWER

44.1 W

OUTPUT CURRENT

700-1050 mA

OUTPUT VOLTAGE

25-42 VDC

CONTROL

ON-OFF
KEY FEATURES

- Isolated
- Flicker-free
- THD < 7%
- 5-year warranty

Efficiency	up to 94%
Dimensions	97 x 43 x 22.8 mm
Installation	Built-in / independent
Protection	IP20 / Class II
Input	220-240 VAC / 50-60 Hz

Technical specifications apply to the stated ARVIK model. Before implementation, confirm the selected variant, operating conditions and document revision.

PRODUCT DATASHEET

AR-44-1050-MI-A-H

ARVIK | TECHNICAL DOCUMENTATION



Feature

- Isolation
- Flick free
- High efficiency $\geq 94\%$
- Low THD $< 7\%$ (@230Vac Full Load)
- Complete protections: OSP / OVP /OPP
- Standby power consumption $< 0.5W$
- It can be used for lighting equipment in protection class II
- 5 year warranty



Model	Output Current	Input Current	Input Power	Output Power Range	PF	Efficiency Typical	Output Voltage	No load Voltage
AR-44-1050-MI-A-H	700mA	0.24A	32.30W	17.50-29.40W	0.94	91%	25-42V	59V
	750mA	0.25A	34.61W	18.75-31.50W	0.94	91%	25-42V	
	800mA	0.25A	36.52W	20.00-33.60W	0.95	92%	25-42V	
	850mA	0.26A	38.38W	21.25-35.70W	0.95	92%	25-42V	
	900mA	0.27A	40.64W	22.50-37.80W	0.95	93%	25-42V	
	950mA	0.27A	42.90W	23.75-39.90W	0.95	93%	25-42V	
	1000mA	0.28A	44.68W	25.00-42.00W	0.95	94%	25-42V	
	1050mA	0.29A	46.91W	26.25-44.10W	0.95	94%	25-42V	

* Test result @230V, 50Hz, Full Load.

1. Parameters

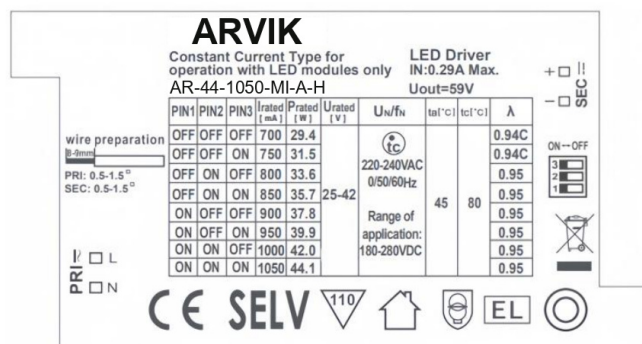
Category	Item	Technical Norm
Features	Output Type	Constant Current
	Output Features	Isolation
	IP Grade	IP20
	Insulation Class	Class II
Input	Rated Input Voltage	220-240VAC
	Range of Input Voltage	198-264VAC
	Range of DC Input Voltage	180-280VDC
	Frequency	0/50/60Hz, Range:0/47-63Hz
	Overvoltage protection	2h@380VAC, 48h@320VAC
	Input Current	≤0.29A
	Input Power	≤46.91W
	Power Factor	≥0.95 (230VAC, full load)
	THD	≤7% (230VAC, full load)
	No-load Power Consumption	≤0.5W @230VAC
	Inrush Current	≤9.4A/2.3us (230VAC, full load)
	Connected quantity of 10A Breaker	20pcs/type A ;33pcs/type B ;53pcs/type C@230Vac
	Connected quantity of 13A Breaker	27pcs/type A ;43pcs/type B ;69pcs/type C@230Vac
Output	Connected quantity of 16A Breaker	33pcs/type A ;53pcs/type B ;85pcs/type C@230Vac
	Connected quantity of 20A Breaker	41pcs/type A ;66pcs/type B ;106pcs/type C@230Vac
	Output Voltage Range	25-42VDC@700-1050mA
	Output Current:	700mA-1050mA (Max.output) , Factory set current of 700mA
	Efficiency	≥94% (230VAC, full load)
	Max. Output Power:	44.1W
	LF Current Ripple (< 120 Hz)	±3% (Imax-Imin)/(Imax+Imin) MAX
	Current Accuracy	±5%
	Started Delay Time	≤0.5S (230VAC, full load)
	PstLM	≤1
Protection	SVM	≤0.4
	Short Circuit Protection	Auto Recovery
	Overload Protection	Auto Recovery
	No-load Protection	Auto Recovery
	Insulation voltage	3000V 5mA 60S between P-S
	Insulation resistance	>100M ohm @ 500VDC
Environment	Leakage current	< 700μA, I/P to O/P or I/P to PE @230V input
	Ta/Operation Temperature	-20...45℃
	Ts/Storage Temperature	-20...80℃
	Tc/Enclosure Temperature	80℃
	Humidity	10%....90%RH
Construction	Atmosphere	86-108KPa
	Connection Method	Push-in Terminal
Construction	Installation	Built-in/Independent

	SEC Wire preparation	PVC,VDE certificated,0.5-1.5 ,with 8mm tin
	PRI Wire preparation	PVC,VDE certificated,0.5-1.5 ,with 8mm tin
	Dimension	97*43*22.8mm (L*W*H)
Standards	Certification	CE
	Safety Standards	EN61347-1:2015/A1:2021; EN61347-2-13:2014/A1:2017;
	Performance	EN62384
	Surge	L/N-Ground:4kV; L-N:2kV
	RoHS	complied to 2011/65/EU
Others	Life Time	50000h Tc=80℃
		75000h Tc=75℃
		100000h Tc=70℃
	Warranty	5years , F.R. < 10000ppm
	Noise	≤28dB@Background noise ≤18dB , Interval≥15cm
Remark: 1.All Parameters, if not specified, are measured at 230VAC/50Hz and 25℃ ambient temperature. 2.LED Driver is a component of the luminaires, Luminaires and wire layout will affect the EMC, please check the EMC with end products again.		

2. Output Current Setting

Output Current	1	2	3
700mA	-	-	-
750mA	-	-	ON
800mA	-	ON	-
850mA	-	ON	ON
900mA	ON	-	-
950mA	ON	-	ON
1000mA	ON	ON	-
1050mA	ON	ON	ON

3. Label

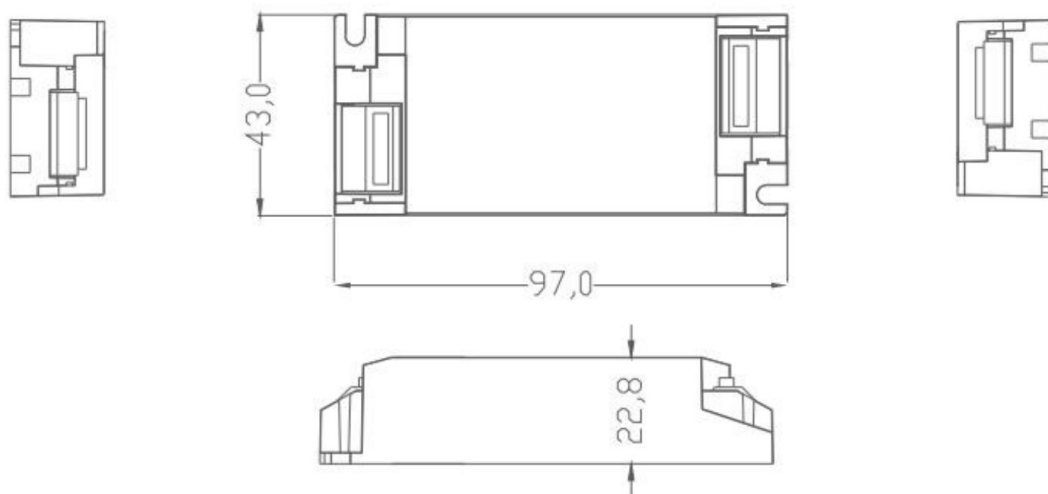


4. Electrical values

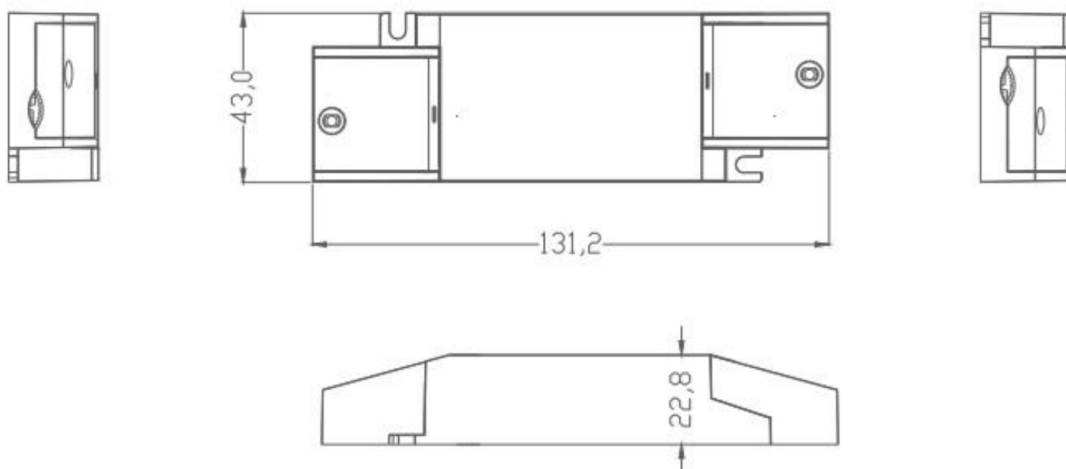
Operating power windows	Efficiency v.s. Load
Power Window 	TBD
PF v.s. Load	THD v.s. Load
TBD	TBD
Life time	Derating
TBD	TBD

5. Dimension (Unit: mm)

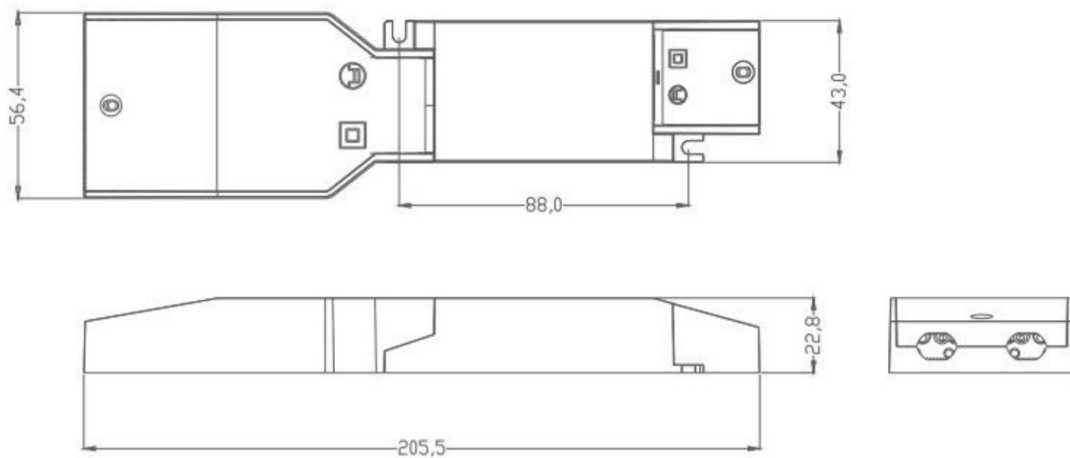
Built in type:



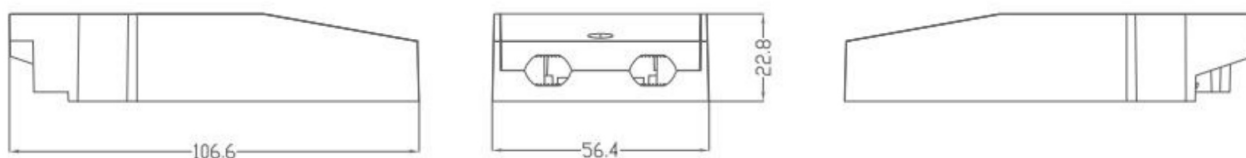
Small side cover:



Large side cover:



Large side cover specifications



Mechanical, Operating & Storage Conditions

Driver cross-section dimensions: 55.4-57.4 x 21.8-23.8 mm

Wire size: 0.5 - 2.5 mm²

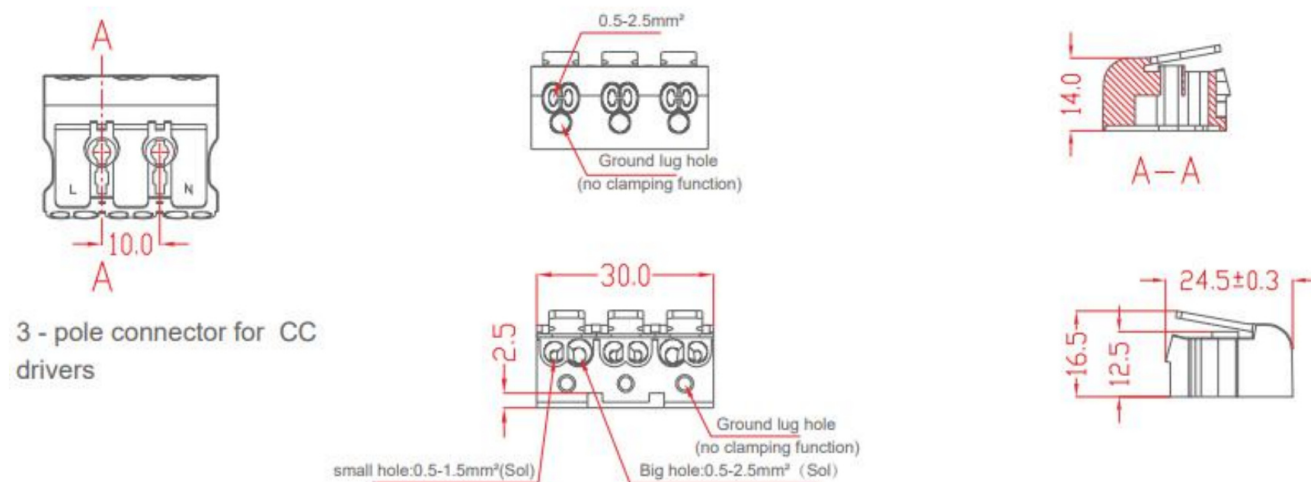
Ambient temperature range: -25...+45 °C

Storage temperature range: -40...+90 °C

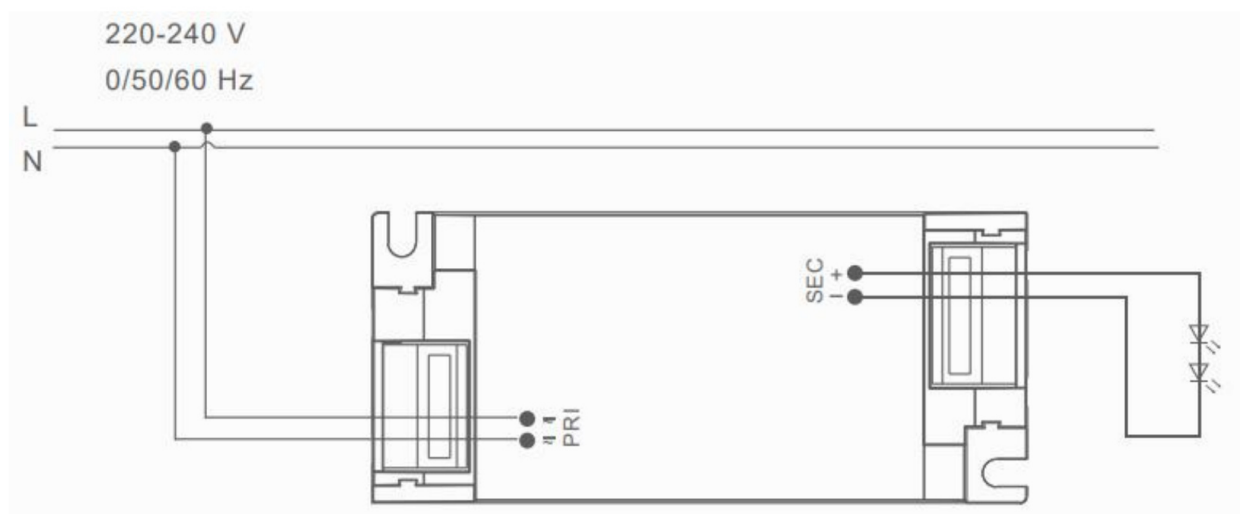
Assembly temperature range: +5...+30 °C

Do not store in wet or humid environment!

Terminal



6. Wiring Diagram



7. Packing information(Built in type)

Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
398*230*130	100	0.127	12.77	13.12

***The details shall be subject to the shipping package.**

8. Wiring instructions

- All connections must be kept as short as possible to ensure good EMI behaviour
- Mains leads should be kept apart from LED Driver and other leads (ideally 5 – 10 cm distance)
- Advice the maximum length of output wires is 3 m
- Secondary switching is not permitted (Except for constant voltage)
- Incorrect wiring can damage LED modules.
- The wiring must be protected against short circuits to earth (sharp edged metals parts, metal cable clips, louver, etc

9. REVISION HISTORY

DATE	VER	REMARK
2025-05-27	V1.0	Initial release.