

AURA+ ALCC040 LED DRIVER SERIES

CONSTANT CURRENT LED DRIVER

ALCC040-xxxx-xxx-67

FEATURES

- Universal AC Input Range 90~264VAC.
- Constant Current mode.
- Active PFC design.
- Protections: OVP / SCP.
- Fully Insulated Case with IP67 rated.
- Meet application for ErP (EU) 2019/2020.
- No-Load power consumption < 0.5W at 230VAC.
- Set up time < 0.5S at 230VAC.

APPLICATION

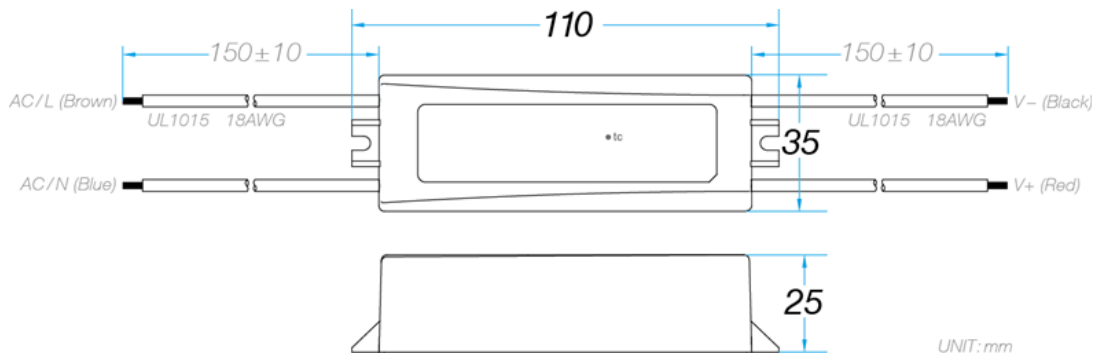
- Suitable for indoor LED lighting application, such as down lights, spotlights and panel lights



Technical Data

Product Code		ALCC040-01050-040-67	ALCC040-00800-052-67	ALCC040-00700-052-67	ALCC040-00600-052-67	ALCC040-00500-052-67
Output	DC Voltage	40V	52V	52V	52V	52V
	Rated Current	1050mA	800mA	700mA	600mA	500mA
	Rated Power	42W	41.6W	36.4W	31.2W	26W
	Efficiency (Typ.)	84%	86%	86%	85%	84%
	DC Voltage Range	12 ~ 40V	22 ~ 52V	22 ~ 52V	22 ~ 52V	22 ~ 52V
	Ripple & Noise (Max.)	300mV				
	Current Tolerance	±5%				
	Set up Time (Max)	< 0.5S / 230VAC, at full load.				
Input	Rated Voltage	100 ~ 240VAC				
	Voltage Range	90 ~ 264VAC				
	Frequency Range	47 Hz ~ 63 Hz				
	AC Current	0.48A at 115VAC, 0.24A at 230VAC	0.48A at 115VAC, 0.24A at 230VAC	0.42A at 115VAC, 0.22A at 230VAC	0.36A at 115VAC, 0.18A at 230VAC	0.30A at 115VAC, 0.16A at 230VAC
	Power Factor	>0.95 at 115VAC, >0.9 at 230VAC at full load.				
	Total Harmonic Distortion	THD < 10% at 230VAC, full load.				
	No-Load Power Consumption	< 0.5W at 230VAC				
	Inrush Current (Typ.)	Cold Start 25A (Td=40us measured at 50% Ipeak) at 230VAC				
	Max. Number of PSUs on Circuit Breaker	B type : 21 units (10A) / 34 units (16A) / 53 units (25A), C type : 21 units (10A) / 34 units (16A) / 53 units (25A), D type : 34 units (16A) / 53 units (25A) at 230VAC				
	Leakage Current (Typ.)	<1mA / 230VAC				
Protections	Short Circuit	Type: Recovers automatically after fault condition is removed				
	Over Voltage	44V~60V	57.2V~78V	57.2V~78V	57.2V~78V	57.2V~78V
Environment	Operation Temp.	-20 ~ +40°C(Refer to output load derating curve).				
	Operation Humidity	20% ~ 90% RH non-condensing.				
	Storage Temp.	-40 ~ +80°C				
	Storage Humidity	10% ~ 90% RH				
	Vibration	10 ~ 500 Hz, 2G 10 min. / 1 cycle, period for 60 min. each along X, Y, Z axes.				

Dimensions



Lenght	110mm
Width	35mm
Height	25mm
Lenght of the wires	150mm
Weight	156g

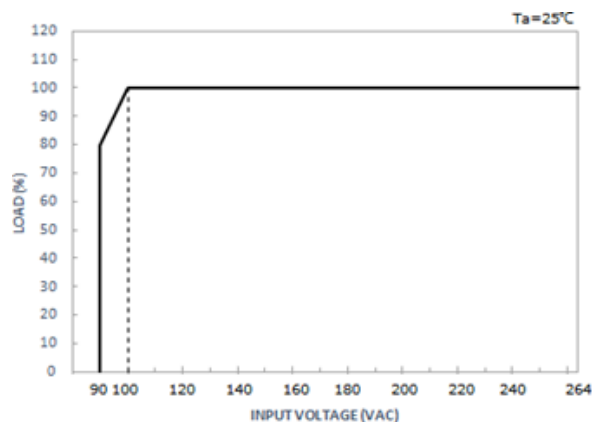
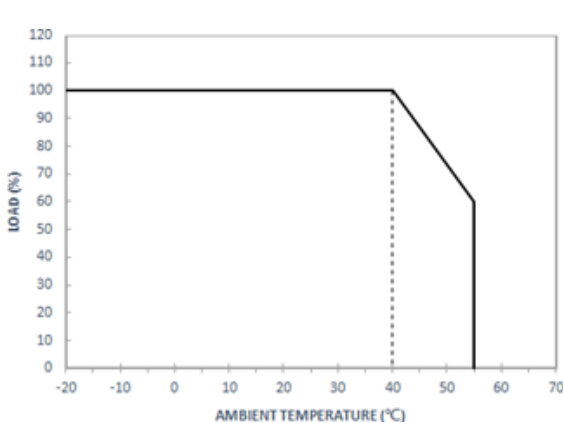
Safety

Safety Standards	Compliance EN61347-1, EN61347-2-13, IP67 Approved.
Withstand Voltage	I/P-O/P: 3.75KVAC
Isolation Resistance	I/P-O/P :100M ohms / 500V DC at 25°C
EMI Conduction & Radiation	Compliance to EN55015
Harmonic Current	Compliance to EN61000-3-2 Class C (100% load), EN61000-3-3
EMS Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547

Warranty and Lifetime

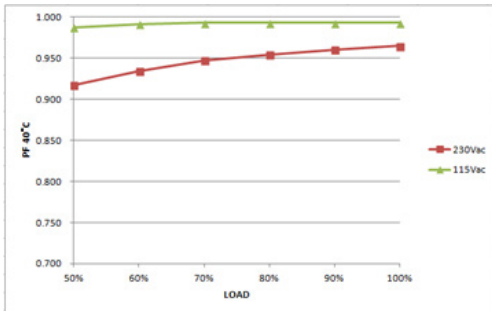
Warranty	5 years
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Derating Curve



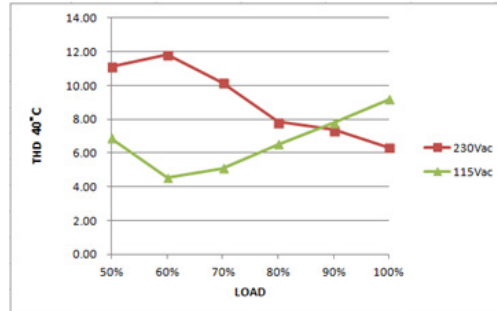
Power Factor (PF) Characteristic (Ta at 40°C)

ALCC040-00700-052-67



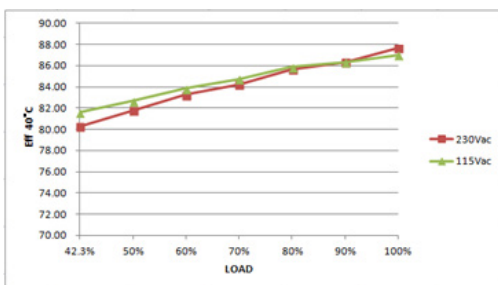
Total Harmonic Distortion (THD) (Ta at 40°C)

ALCC040-00700-052-67



Efficiency vs Load (Ta at 40°C)

ALCC040-00700-052-67



Safety Labels

aled LED DRIVER SELV IP67
ALCC040-00500-052-67

● AC L (BROWN)
PRI
● AC N (BLUE)
SEC

PRI: 100-240VAC 0.4A 50-60HZ
SEC: 500mA 22-52VDC 26W

tc: 90°C ta: 40°C

ARRANT-LIGHT OY WWW.LIGHT.FI Made in XXXXXX

ALCC040-00500-052-67

aled LED DRIVER SELV IP67
ALCC040-00600-052-67

● AC L (BROWN)
PRI
● AC N (BLUE)
SEC

PRI: 100-240VAC 0.45A 50-60HZ
SEC: 600mA 22-52VDC 31.2W

tc: 90°C ta: 40°C

ARRANT-LIGHT OY WWW.LIGHT.FI Made in XXXXXX

ALCC040-00600-052-67

aled LED DRIVER SELV IP67
ALCC040-00700-052-67

● AC L (BROWN)
PRI
● AC N (BLUE)
SEC

PRI: 100-240VAC 0.5A 50-60HZ
SEC: 700mA 22-52VDC 36.4W

tc: 90°C ta: 40°C

ARRANT-LIGHT OY WWW.LIGHT.FI Made in XXXXXX

ALCC040-00700-052-67

aled LED DRIVER SELV IP67
ALCC040-00800-052-67

● AC L (BROWN)
PRI
● AC N (BLUE)
SEC

PRI: 100-240VAC 0.65A 50-60HZ
SEC: 800mA 22-52VDC 41.6W

tc: 90°C ta: 40°C

ARRANT-LIGHT OY WWW.LIGHT.FI Made in XXXXXX

ALCC040-00800-052-67

aled LED DRIVER SELV IP67
ALCC040-01050-040-67

● AC L (BROWN)
PRI
● AC N (BLUE)
SEC

PRI: 100-240VAC 0.65A 50-60HZ
SEC: 1050mA 12-40VDC 42W

tc: 90°C ta: 40°C

ARRANT-LIGHT OY WWW.LIGHT.FI Made in XXXXXX

ALCC040-01050-052-67