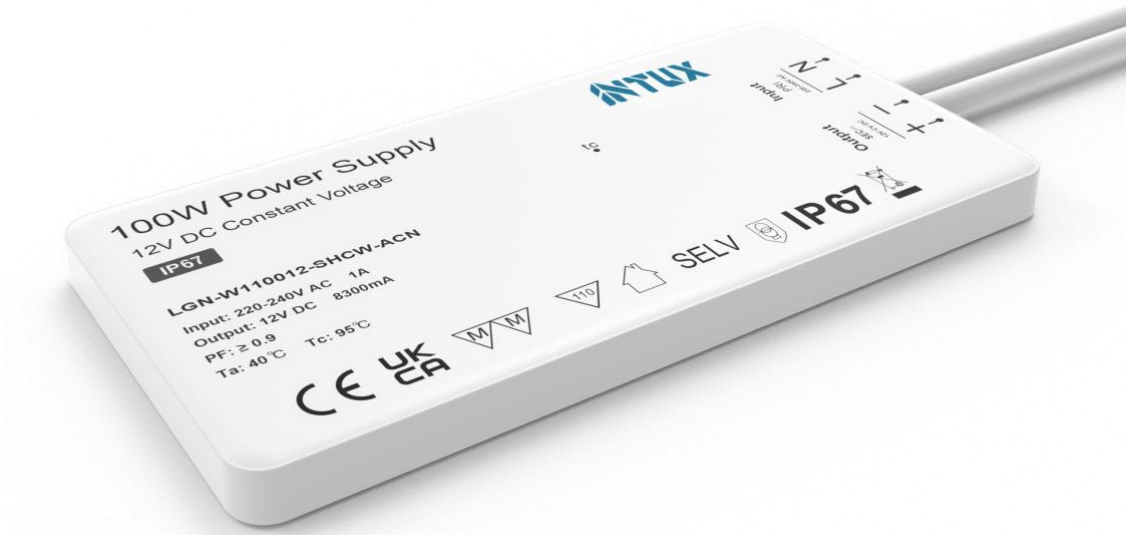
INTUX for COVEL

Super-thin13mm IP65 LED Driver Serial



Features

- IP65 Rated
- Standby power consumption < 0.5W
- Power Factor > 0.9
- Class II, SELV
- Flicker-free
- Fully certified for most of countries
- 50K Hour nominal lifetime (@ Ta: 25oC)
- 5 Year Warranty

Protection

- Short circuit, Over-load and No-load

Typical Application

- LED strip lights
- Kitchen low voltage lights
- Bathroom low voltage lights
- Shelf low voltage lights
- Constant voltage ioT devices.

Model List

Model	Output power	Output voltage	Output current	Input voltage	Dimension (L*W*H)	Certifications
LGN-W14012-SHCW-ACN	40W	12VDC	3.3A Max.	200-240VAC	149*69*13mm	CE, UKCA, CCC
LGN-W14812-SHCW-ACN	48W	12VDC	4.0A Max.	200-240VAC	149*69*13mm	CE, UKCA, CCC
LGN-W16512-SHCW-ACN	65W	12VDC	5.4A Max.	200-240VAC	178*83*13mm	CE, UKCA, CCC
LGN-W110012-SHCW-ACN	100W	12VDC	8.3A Max.	200-240VAC	194*99*13mm	CE, UKCA, CCC
LGN-W14024-SHCW-ACN	40W	24VDC	1.6A Max.	200-240VAC	149*69*13mm	CE, UKCA, CCC
LGN-W14824-SHCW-ACN	48W	24VDC	2.0A Max.	200-240VAC	149*69*13mm	CE, UKCA, CCC
LGN-W16524-SHCW-ACN	65W	24VDC	2.7A Max.	200-240VAC	178*83*13mm	CE, UKCA, CCC
LGN-W110024-SHCW-ACN	100W	24VDC	4.2A Max.	200-240VAC	194*99*13mm	CE, UKCA, CCC

Technical Specifications

Product Code	LGN-W14012-SHCW-ACN	LGN-W14812-SHCW-ACN	LGN-W16512-SHCW-ACN	LGN-W110012-SHCW-ACN
Output parameters				
Regulation method	Constant voltage	Constant voltage	Constant voltage	Constant voltage
Rated output voltage	12V DC	12V DC	12V DC	12V DC
Rate Current Range	3.3A Max.	4.0A Max	5.4A Max	8.3A Max.
Rated output power	40W Max	48W Max	65W Max.	100W Max.
Current ripple LF	±2%	±2%	±2%	±2%
Voltage accuracy	±4%	±4%	±4%	±4%
Linear regulation	n/a	n/a	n/a	n/a
Load regulation	±5%	±5%	±5%	±5%
No load voltage	n/a	n/a	n/a	n/a
Flicker-free	Pst LM=0.013, SVM=0.000, (Data obtained through testing with constant voltage LED strip light at lab condition.)			
Input parameters				
Rated input voltage	200-240VAC			
Input voltage range	185-264VAC			
Input voltage shock	< 380VAC			
Input current	< 0.21A (@AC230V)	< 0.26A (@AC230V)	< 0.32A (@AC230V)	< 0.51A (@AC230V)
Input frequency	50/60Hz			
Power Factor	> 0.9			
Input THD	n/a	n/a	n/a	n/a
Efficiency (Max.)	84%	85%	85%	86%
In-rush current	69.4A	67.8A	69.4A	79.1A
Start/Switch-over/Turn off	<0.5s(AC start), <0.5s(DC start), <0.3s(AC/DC switchover), <0.5s(Turn off)			
Switching cycles	> 30,000 switching cycles			
Standby Consumption	0.2W	0.2W	0.28W	0.3W
Safety				
Withstand voltage	I/P-O/P (LED): 3750VAC, I/P-FG:1750VAC, O/P-FG:500VAC			
Mains surge capability	L-N:1000, L-FG/N-FG: 2000V			
Leakage current	<0.5mA (230VAC & Full load)			
Isolation resistance	I/P-O/P: 100MΩ, 500Vdc, @25℃ 70% RH			
Dimming				
Plug-in Dim	n/a			
Triac Dimming	n/a			
1-10V Dimming	n/a			
Auxiliary Power	n/a			
Dimming Range	n/a			
Condition and Life Expectancy				
Operation temperature	Ta: 0-40 ℃			
Case temperature	Tc=95 ℃ @ Ta 40 ℃			
Operating humidity	5-85% RH			
Storage	-40 - 80℃, 5 - 85% RH			
IP grade	IP67			
Expected lifetime	50,000hrs			
Acoustic Noise	<25dB (@30cm, full load)			
Environmental	RoHS			
Certifications and standards				
Certification	CE, UKCA, CCC, RoHS			
Safety	EN61347-1, EN61347-2-13			
EMC	EN55015, EN61000-3-2 , EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547			
EL	n/a			
RF	n/a			

Remarks

1.By default, all data are measured and collected with 230VAC input, at full load and 25℃ of ambient temperature, tested with constant voltage LED strip light.

Technical Specifications

Product Code	LGN-W14024-SHCW-ACN	LGN-W14824-SHCW-ACN	LGN-W16524-SHCW-ACN	LGN-W110024-SHCW-ACN
Output parameters				
Regulation method	Constant voltage	Constant voltage	Constant voltage	Constant voltage
Rated output voltage	24V DC	24V DC	24V DC	24V DC
Rate Current Range	1.65A Max.	2.01A Max	2.71A Max	4.20A Max.
Rated output power	40W Max	48W Max	65W Max.	100W Max.
Current ripple LF	±2%	±2%	±2%	±2%
Voltage accuracy	±4%	±4%	±4%	±4%
Linear regulation	n/a	n/a	n/a	n/a
Load regulation	±5%	±5%	±5%	±5%
No load voltage	n/a	n/a	n/a	n/a
Flicker-free	Pst LM=0.013, SVM=0.000, (Data obtained through testing with constant voltage LED strip light at lab condition.)			
Input parameters				
Rated input voltage	200-240VAC			
Input voltage range	185-264VAC			
Input voltage shock	< 380VAC			
Input current	< 0.11A (@AC230V)	< 0.13A (@AC230V)	< 0.17A (@AC230V)	< 0.26A (@AC230V)
Input frequency	50/60Hz			
Power Factor	> 0.9			
Input THD	n/a	n/a	n/a	n/a
Efficiency (Max.)	90%	91%	91%	92%
In-rush current	69.4A	67.8A	69.4A	79.1A
Start/Switch-over/Turn off	<0.5s(AC start), <0.5s(DC start), <0.3s(AC/DC switchover), <0.5s(Turn off)			
Switching cycles	> 30,000 switching cycles			
Standby Consumption	0.2W	0.2W	0.28W	0.3W
Safety				
Withstand voltage	I/P-O/P (LED): 3750VAC, I/P-FG:1750VAC, O/P-FG:500VAC			
Mains surge capability	L-N:1000, L-FG/N-FG: 2000V			
Leakage current	<0.5mA (230VAC & Full load)			
Isolation resistance	I/P-O/P: 100MΩ, 500Vdc, @25℃ 70% RH			
Dimming				
Plug-in Dim	n/a			
Triac Dimming	n/a			
1-10V Dimming	n/a			
Auxiliary Power	n/a			
Dimming Range	n/a			
Condition and Life Expectancy				
Operation temperature	Ta: 0-40 ℃			
Case temperature	Tc=95 ℃ @ Ta 40 ℃			
Operating humidity	5-85% RH			
Storage	-40 - 80℃, 5 - 85% RH			
IP grade	IP67			
Expected lifetime	50,000hrs			
Acoustic Noise	<25dB (@30cm, full load)			
Environmental	RoHS			
Certifications and standards				
Certification	CE, UKCA, CCC, RoHS			
Safety	EN61347-1, EN61347-2-13			
EMC	EN55015, EN61000-3-2 , EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547			
EL	n/a			
RF	n/a			

Remarks

1.By default, all data are measured and collected with 230VAC input, at full load and 25℃ of ambient temperature, tested with constant voltage LED strip light.

Protection response

Output short-circuit protection

- When the output of the driver is short-circuited, the driver shall turn off automatically; To fix the situation, switch off AC power supply for over 30s and switch back on, the driver shall be back in normal working condition.

Output no-load protection

- No load protection clicks in when no load is connected to the driver output. When load is connected, the driver shall work as normal.

Output overload protection

- When exceeded load connected to the driver , overload protection clicks in and hiccup state shows. Please reduce the load to allow driver to resume back to normal work condition.

Note:

Information provided in this specification sheet is for illustration purpose only. We reserves the rights to alter the specification of the products without notice at any time. For accurate and updated information, please contact the account manager for confirmation.