

# ULVU 12W Series

## LED Lighting - Standard



▲ ULVUU3012



▲ ULVUL3012



▲ ULVUZ3012



▲ ULVUE3012



▲ ULVUR3012



▲ ULVUA3012



▲ ULVUK3012



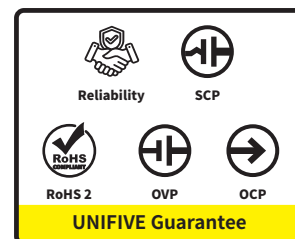
▲ ULVUF3012



▲ ULVUG3012



For further information of ULVU 12W series' safety standard, please contact us.



## Model Name Definition

**U x V U x 3 0 1 2 -** \_\_\_\_\_

① ② ③ ④ ⑤ ⑥ ⑦

Standard Code

● LED

L 61347-1

- ① Developed by UNIFIVE
- ② Standard Code
- ③ Series Code
- ④ Series Code : U / L / Z / E / R  
A / K / F / G
- ⑤ Input 100V/240V
- ⑥ Output Power (W)
- ⑦ Detail Information

## Highlight

- Product comply IEC 6100-3-2 harmonic restrictions standard that over 5W and under 25W apply for all lighting appliances including LED lighting
- The limited value for LED Driver over 5W and under 25W apply for all lighting appliances including LED lighting. All of over 5W lighting devices are under harmonic restrictions
- Additional under 25W ease requirements ( additional item ③ only and item ① & ② same as before )
  - ① Class D
  - ② Judge by waveform phase
  - ③  $THD \leq 70\%$  and basic wave current for 3rd , 5th, 7th, 9th and 11th are under 35%, 25%, 30%, 20% and 20%. The 2nd harmonic under 5%
- Corresponding CV mode, we support customized for C.C. & C.V. mode, C.C. mode only, LED table lamp and LED fluorescent lamp.
- Power Factor Correction
- Suitable for LED Lights

## Standard\*

- Audio / AV / IT
  - 62368-1\*\*
  - 60065-1
  - 60950-1
- LED
  - 61347-1

- PSE

\* ULVU 12W series is designed to MEET all standards above.  
 \*\*Opt for IEC/UL 62368, other than 60065 and 60950, compliant products for advanced and comprehensive safety protection.

## EMS Compliance

- EN55032
- EN61000-3-2
- EN61000-3-3
- EN61000-4-2
- EN61000-4-3
- EN61000-4-4
- EN61000-4-5
- EN61000-4-6
- EN61000-4-8
- EN61000-4-11

## Emissions

- FCC-B
- CISPR15
- BS EN55015
- VCCI-B

## Immunity

- EN61547
- BS EN61547

## Efficiency

- Up to

85%

## Electrical Spec

Input					
Description		Min.	Typ.	Max.	Units
Voltage		90	100~240	264	Vac
Frequency		47	50/60	63	Hz
Power Factor	ACIN 100V	0.75	-	-	-
	ACIN 230V	0.75	-	-	-

Environmental						
Description		Min.	Typ.	Max.	Units	Comment
Operating Temperature		0	-	40	°C	Free Convection,Sea Level
Storage Temperature		-20	-	65	°C	Free Convection,Sea Level
Operating Humidity		5	-	95	%RH	No Condensing
Storage Humidity		5	-	95	%RH	No Condensing

## Typical model list

Model Name	DC Output Voltage	DC Output Current	Output Voltage Precision	Ripple	Noise	Average Active Efficiency	No-Load Power Consumption
ULVUx3012-120010	12.0V	1.0A	±10%	6V	6V	82.0%	0.3W
ULVUx3012-150800	15.0V	0.8A	±10%	6V	6V	83.0%	0.3W
ULVUx3012-190630	19.0V	0.63A	±10%	6V	6V	83.0%	0.3W
ULVUx3012-240500	24.0V	0.5A	±10%	6V	6V	85.0%	0.3W

■ Measurement Condition

1. Measurements shall be made with an oscilloscope with 20MHz bandwidth.
2. Outputs shall be bypassed at the connector with a 0.1uF ceramic disk capacitor and a 10uF electrolytic capacitor to simulate system loading.

## Mechanical Spec

ULVUU3012 Series	ULVUL3012 Series
ULVUZ3012 Series	ULVUE3012 Series

Mechanical Spec

ULVUR3012 Series	ULVUA3012 Series
<p>70.00 35.00 66.30</p>	<p>70.00 Ø38.00 57.00</p>
ULVUK3012 Series	ULVUF3012 Series
<p>70.00 48.80 55.20</p>	<p>70.00 35.00 66.30</p>
ULVUG3012 Series	<p>the following blank</p>
<p>70.00 Ø38.00 57.00</p>	

■ Please contact our sales department for details of each model ■