

LED DRIVERS

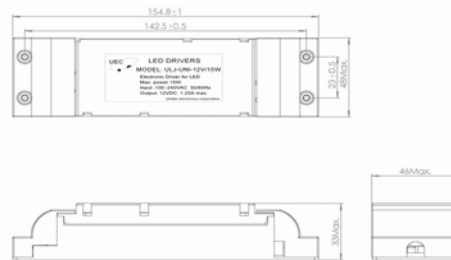
ULA Series

Description

ESDEN has been manufacturing transformer, choke coil and power supply since 1978. We have since added several products to our product line. Our LED Drivers ULA series is one of them. The LED Drivers ULA series utilizes the latest technology and is compliant with the UL, CSA and IEC standards. We are also ISO 9001 certified and our commitment to quality guarantees the best performance in every product.

Feature

- * Input voltage: AC100V~240V 50/60Hz, (or AC120V 60Hz or AC230V 50/60Hz)
- * Single output terminal
- * Overload, short protection
- * Output power: 12W, 17W, 25W
- * 100% hi-pot test
- * 100% cycling burn-in test



Specifications

Input voltage: AC100V~240V 50/60Hz 12 Watts / 17 Watts / 25 Watts

Model	ULA-UNI-350/12W	ULA-UNI-12V/12W	ULA-UNI-24V/12W
Input voltage	AC100V~240V 50/60Hz		
Input range	AC90V~264V 50/60Hz		
Output Voltage	DC2.6~32.8V	DC12V	DC24V
Output Current	350mA	1A	0.5A
Max. power	12W	12W	12W
Efficiency	75% typical (at full load)		
Short circuit protection	Pulsing mode, auto recovery		
Topology	flyback		
Dielectric strength test	3000VAC primary to secondary		
Insulation resistance	DC 500V 100mΩ min. (Between Input & Output)		
Size LxWxH (mm)	155 * 46 * 33		

Model	ULA-UNI-700/17W	ULA-UNI-12V/17W	ULA-UNI-24V/17W
Input voltage	AC100V~240V 50/60Hz		
Input range	AC90V~264V 50/60Hz		
Output Voltage	DC7.8V~24.6V	DC12V	DC24V
Output Current	700mA	1.4A	700mA
Max. power	17W	17W	17W
Efficiency	75% typical (at full load)		
Overload protection	110%		
Short circuit protection	Pulsing mode, auto recovery		
Topology	flyback		
Dielectric strength test	3000VAC primary to secondary		
Insulation resistance	DC 500V 100mΩ min. (Between Input & Output)		
Size LxWxH (mm)	155 * 46 * 33		

Model	ULA-UNI-1000/25W	ULA-UNI-12V/25W	ULA-UNI-24V/25W
Input voltage	AC100V~240V 50/60Hz		
Input range	AC90V~264V 50/60Hz		
Output Voltage	DC7.8V~25V	DC12V	DC24V
Output Current	1A	2.08A	1.05A
Max. power	25W	25W	25W
Efficiency	75% typical (at full load)		
Overload protection	110%		
Short circuit protection	Pulsing mode, auto recovery		
Topology	flyback		
Dielectric strength test	3000VAC primary to secondary		
Insulation resistance	DC 500V 100mΩ min. (Between Input & Output)		
Size LxWxH (mm)	155 * 46 * 33		

☛ **Input voltage: AC120V 60Hz 12 Watts / 17 Watts / 25 Watts**

Model	ULA-120-350/12W	ULA-120-12V/12W	ULA-120-24V/12W
Input voltage	AC120V 60Hz		
Input range	AC120V ± 10%		
Output Voltage	DC2.6~32.8V	DC12V	DC24V
Output Current	350mA	1A	0.5A
Max. power	12W	12W	12W
Efficiency	75% typical (at full load)		
Short circuit protection	Pulsing mode, auto recovery		
Topology	flyback		
Dielectric strength test	3000VAC primary to secondary		
Insulation resistance	DC 500V 100mΩ min. (Between Input & Output)		
Size LxWxH (mm)	155 * 46 * 33		

Model	ULA-120-700/17W	ULA-120-12V/17W	ULA-120-24V/17W
Input voltage	AC120V 60Hz		
Input range	AC120V ± 10%		
Output Voltage	DC7.8V~24.6V	DC12V	DC24V
Output Current	700mA	1.4A	700mA
Max. power	17W	17W	17W
Efficiency	75% typical (at full load)		
Overload protection	110%		
Short circuit protection	Pulsing mode, auto recovery		
Topology	flyback		
Dielectric strength test	3000VAC primary to secondary		
Insulation resistance	DC 500V 100mΩ min. (Between Input & Output)		
Size LxWxH (mm)	155 * 46 * 33		

Model	ULA-120-1000/25W	ULA-120-12V/25W	ULA-120-24V/25W
Input voltage	AC100V 50/60Hz		
Input range	AC120V ± 10%		
Output Voltage	DC7.8V~25V	DC12V	DC24V
Output Current	1A	2.08A	1.05A
Max. power	25W	25W	25W
Efficiency	75% typical (at full load)		
Overload protection	110%		
Short circuit protection	Pulsing mode, auto recovery		
Topology	flyback		
Dielectric strength test	3000VAC primary to secondary		
Insulation resistance	DC 500V 100mΩ min. (Between Input & Output)		
Size LxWxH (mm)	155 * 46 * 33		

☞ Input voltage: AC230V 50/60Hz 12 Watts / 17 Watts / 25 Watts

Model	ULA-230-350/12W	ULA-230-12V/12W	ULA-230-24V/12W
Input voltage	AC230V 50/60Hz		
Input range	AC230V ± 10%		
Output Voltage	DC2.6~32.8V	DC12V	DC24V
Output Current	350mA	1A	0.5A
Max. power	12W	12W	12W
Efficiency	75% typical (at full load)		
Short circuit protection	Pulsing mode, auto recovery		
Topology	flyback		
Dielectric strength test	3000VAC primary to secondary		
Insulation resistance	DC 500V 100mΩ min. (Between Input & Output)		
Size LxWxH (mm)	155 * 46 * 33		

Model	ULA-230-700/17W	ULA-230-12V/17W	ULA-230-24V/17W
Input voltage	AC230V 50/60Hz		
Input range	AC230V ± 10%		
Output Voltage	DC7.8V~24.6V	DC12V	DC24V
Output Current	700mA	1.4A	700mA
Max. power	17W	17W	17W
Efficiency	75% typical (at full load)		
Overload protection	110%		
Short circuit protection	Pulsing mode, auto recovery		
Topology	flyback		
Dielectric strength test	3000VAC primary to secondary		
Insulation resistance	DC 500V 100mΩ min. (Between Input & Output)		
Size LxWxH (mm)	155 * 46 * 33		

Model	ULA-230-1000/25W	ULA-230-12V/25W	ULA-230-24V/25W
Input voltage	AC230V 50/60Hz		
Input range	AC230V ± 10%		
Output Voltage	DC7.8V~25V	DC12V	DC24V
Output Current	1A	2.08A	1.05A
Max. power	25W	25W	25W
Efficiency	75% typical (at full load)		
Overload protection	110%		
Short circuit protection	Pulsing mode, auto recovery		
Topology	flyback		
Dielectric strength test	3000VAC primary to secondary		
Insulation resistance	DC 500V 100mΩ min. (Between Input & Output)		
Size LxWxH (mm)	155 * 46 * 33		



ULA Series



ULJ Series



KA Series



Adaptor

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LED DRIVERS

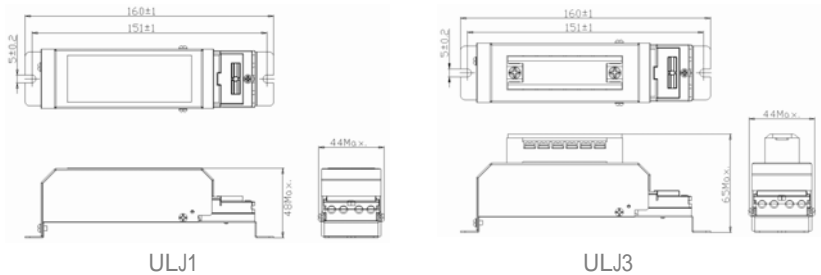
ULJ Series (for Japan use)

Description

ESDEN has been manufacturing transformer, choke coil and power supply since 1978. We have since added several products to our product line. Our LED Drivers ULJ series is one of them. The LED Drivers ULJ series utilizes the latest technology and is compliant with the Japan JIS and IEC 60950 standards. We are also ISO 9001 certified and our commitment to quality guarantees the best performance in every product.

Feature

- * Input voltage: AC100V~240V 50/60Hz, (or AC100V 50/60Hz or AC200V 50/60Hz)
- * Output optional: Single or Triple output terminal
- * Overload, short protection
- * 100% hi-pot test
- * Output power: 12W, 17W, 25W
- * 100% cycling burn-in test



Specifications

Input voltage: AC100V~240V 50/60Hz 12 Watts / 17 Watts / 25 Watts

Model	ULJ1-UNI-350/12W ULJ3-UNI-350/12W	ULJ1-UNI-12V/12W ULJ3-UNI-12V/12W	ULJ1-UNI-24V/12W ULJ3-UNI-24V/12W
Input voltage	AC100V~240V 50/60Hz		
Output Voltage	DC2.6~32.8V	DC12V	DC24V
Output Current	350mA	1A	0.5A
Output Circuit	ULJ1: Single output / ULJ3: Triple output		
Max. power	12W	12W	12W
Efficiency	75% typical (at full load)		
Short circuit protection	Pulsing mode, auto recovery		
Topology	flyback		
Dielectric strength test	1500VAC primary to secondary		
Insulation resistance	DC 500V 100mΩ min. (Between Input & Output)		
Size LxWxH (mm)	ULJ1: 160*39*65 / ULJ3: 160* 39* 48		

Model	ULJ1-UNI-700/17W ULJ3-UNI-700/17W	ULJ1-UNI-12V/17W ULJ3-UNI-12V/17W	ULJ1-UNI-24V/17W ULJ3-UNI-24V/17W
Input voltage	AC100V~240V 50/60Hz		
Output Voltage	DC7.8V~24.6V	DC12V	DC24V
Output Current	700mA	1.4A	700mA
Output Circuit	ULJ1: Single output / ULJ3: Triple output		
Max. power	17W	17W	17W
Efficiency	75% typical (at full load)		
Overload protection	110%		
Short circuit protection	Pulsing mode, auto recovery		
Topology	flyback		
Dielectric strength test	1500VAC primary to secondary		
Insulation resistance	DC 500V 100mΩ min. (Between Input & Output)		
Size LxWxH (mm)	ULJ1: 160*39*65 / ULJ3: 160* 39* 48		

Model	ULJ1-UNI-1000/25W ULJ3-UNI-1000/25W	ULJ1-UNI-12V/25W ULJ3-UNI-12V/25W	ULJ1-UNI-24V/25W ULJ3-UNI-24V/25W
Input voltage	AC100V~240V 50/60Hz		
Output Voltage	DC7.8V~25V	DC12V	DC24V
Output Current	1A	2.08A	1.05A
Output Circuit	ULJ1: Single output / ULJ3: Triple output		
Max. power	25W	25W	25W
Efficiency	75% typical (at full load)		
Overload protection	110%		
Short circuit protection	Pulsing mode, auto recovery		
Topology	flyback		
Dielectric strength test	1500VAC primary to secondary		
Insulation resistance	DC 500V 100mΩ min. (Between Input & Output)		
Size LxWxH (mm)	ULJ1: 160*39*65 / ULJ3: 160* 39* 48		

☛ Input voltage: AC100V 50/60Hz 12 Watts / 17 Watts / 25 Watts

Model	ULJ1-100-350/12W ULJ3-100-350/12W	ULJ1-100-12V/12W ULJ3-100-12V/12W	ULJ1-100-24V/12W ULJ3-100-24V/12W
Input voltage	AC100VV 50/60Hz		
Output Voltage	DC2.6~32.8V	DC12V	DC24V
Output Current	350mA	1A	0.5A
Output Circuit	ULJ1: Single output / ULJ3: Triple output		
Max. power	12W	12W	12W
Efficiency	75% typical (at full load)		
Short circuit protection	Pulsing mode, auto recovery		
Topology	flyback		
Dielectric strength test	1500VAC primary to secondary		
Insulation resistance	DC 500V 100mΩ min. (Between Input & Output)		
Size LxWxH (mm)	ULJ1: 160*39*65 / ULJ3: 160* 39* 48		

Model	ULJ1-100-700/17W ULJ3-100-700/17W	ULJ1-100-12V/17W ULJ3-100-12V/17W	ULJ1-100-24V/17W ULJ3-100-24V/17W
Input voltage	AC100V 50/60Hz		
Output Voltage	DC7.8V~24.6V	DC12V	DC24V
Output Current	700mA	1.4A	700mA
Output Circuit	ULJ1: Single output / ULJ3: Triple output		
Max. power	17W	17W	17W
Efficiency	75% typical (at full load)		
Overload protection	110%		
Short circuit protection	Pulsing mode, auto recovery		
Topology	flyback		
Dielectric strength test	1500VAC primary to secondary		
Insulation resistance	DC 500V 100mΩ min. (Between Input & Output)		
Size LxWxH (mm)	ULJ1: 160*39*65 / ULJ3: 160* 39* 48		

Model	ULJ1-100-1000/25W ULJ3-100-1000/25W	ULJ1-100-12V/25W ULJ3-100-12V/25W	ULJ1-100-24V/25W ULJ3-100-24V/25W
Input voltage	AC100V 50/60Hz		
Output Voltage	DC7.8V~25V	DC12V	DC24V
Output Current	1A	2.08A	1.05A
Output Circuit	ULJ1: Single output / ULJ3: Triple output		
Max. power	25W	25W	25W
Efficiency	75% typical (at full load)		
Overload protection	110%		
Short circuit protection	Pulsing mode, auto recovery		
Topology	flyback		
Dielectric strength test	1500VAC primary to secondary		
Insulation resistance	DC 500V 100mΩ min. (Between Input & Output)		
Size LxWxH (mm)	ULJ1: 160*39*65 / ULJ3: 160* 39* 48		

☞ Input voltage: AC200V 50/60Hz 12 Watts / 17 Watts / 25 Watts

Model	ULJ1-200-350/12W ULJ3-200-350/12W	ULJ1-200-12V/12W ULJ3-200-12V/12W	ULJ1-200-24V/12W ULJ3-200-24V/12W
Input voltage	AC200V 50/60Hz		
Output Voltage	DC2.6~32.8V	DC12V	DC24V
Output Current	350mA	1A	0.5A
Output Circuit	ULJ1: Single output / ULJ3: Triple output		
Max. power	12W	12W	12W
Efficiency	75% typical (at full load)		
Short circuit protection	Pulsing mode, auto recovery		
Topology	flyback		
Dielectric strength test	1500VAC primary to secondary		
Insulation resistance	DC 500V 100mΩ min. (Between Input & Output)		
Size LxWxH (mm)	ULJ1: 160*39*65 / ULJ3: 160* 39* 48		

Model	ULJ1-200-700/17W ULJ3-200-700/17W	ULJ1-200-12V/17W ULJ3-200-12V/17W	ULJ1-200-24V/17W ULJ3-200-24V/17W
Input voltage	AC200V 50/60Hz		
Output Voltage	DC7.8V~24.6V	DC12V	DC24V
Output Current	700mA	1.4A	700mA
Output Circuit	ULJ1: Single output / ULJ3: Triple output		
Max. power	17W	17W	17W
Efficiency	75% typical (at full load)		
Overload protection	110%		
Short circuit protection	Pulsing mode, auto recovery		
Topology	flyback		
Dielectric strength test	1500VAC primary to secondary		
Insulation resistance	DC 500V 100mΩ min. (Between Input & Output)		
Size LxWxH (mm)	ULJ1: 160*39*65 / ULJ3: 160* 39* 48		

Model	ULJ1-200-1000/25W ULJ3-200-1000/25W	ULJ1-200-12V/25W ULJ3-200-12V/25W	ULJ1-200-24V/25W ULJ3-200-24V/25W
Input voltage	AC200V 50/60Hz		
Output Voltage	DC7.8V~25V	DC12V	DC24V
Output Current	1A	2.08A	1.05A
Output Circuit	ULJ1: Single output / ULJ3: Triple output		
Max. power	25W	25W	25W
Efficiency	75% typical (at full load)		
Overload protection	110%		
Short circuit protection	Pulsing mode, auto recovery		
Topology	flyback		
Dielectric strength test	1500VAC primary to secondary		
Insulation resistance	DC 500V 100mΩ min. (Between Input & Output)		
Size LxWxH (mm)	ULJ1: 160*39*65 / ULJ3: 160* 39* 48		



ULA Series



ULJ Series



KA Series



Adaptor

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LED DRIVERS

KA Series

Description

ESDEN has been manufacturing transformer, choke coil and power supply since 1978. We have since added several products to our product line. Our **LED Driver KA** series is one of them. The **LED Driver KA** series utilizes the latest technology and is compliant with the Europe EN standards. We are also ISO 9001 certified and our commitment to quality guarantees the best performance in every product.

Feature

- * Input voltage: AC100V~120V 50/60Hz or AC220V~240V 50/60Hz
- * Single output option
- * 100% hi-pot test
- * Overload, short protection
- * 100% cycling burn-in test

KA-LED9T-1



KA-LED9T



KA-LED16T



Specifications

Model	KA-LED9T-1	KA-LED9T	KA-LED16T
INPUT			
Input voltage	100V~120V	220V~240V	220V~240V
Input frequency	47~63Hz	47~63Hz	47~63Hz
Input current	0.23A	0.12A (240VAC)	0.18A
Protection	Fusible resistor	Fusible resistor	Fusible resistor
OUTPUT			
Max. power	9W	9W	16W
Voltage/Current	3.5-38VDC(typ.)constant 320mA±30mA		12VDC(typ.)/1300mA
Efficiency	72% typical (at full load)		
Short circuit protection	Pulsing mode, auto recovery		
Topology	flyback		
Dielectric strength test	3750VAC primary to secondary		
Safety and EMC	EN61347, EN55015, EN61547, EN61000-3-2, EN61000-3-3		
Size LxWxH	144mm * 38mm * 24mm		
ta	50		

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