

AC-DC CONVERTER

UNIVERSAL INPUT, 15 WATTS

TRIPLE OUTPUT
UILT15 SERIES



FEATURES

- Triple Output
- Universal Input 90-264Vac
- Low Ripple and Noise
- Fully Encapsulated Plastic Case
- Dimensions: 2.91" × 2.13" × 0.86"
- Protection: Short Circuit/ Overload/ Over Voltage
- 2 Year Warranty
- RoHS Compliant
- Built to meet UL/CUL/CE

SELECTION GUIDE

All specifications are typical at 230Vac input, full load and 25°C, unless otherwise noted.

Output Voltage Vdc	Output Current mA	Ripple (Vp-p) (Max.)	Noise (Vp-p) (Max.)	Efficiency %	Model Number
5/±12	2000/±200 Max.	<0.2% Vout +40mV	<0.5% Vout +50mV	73	UILT15-5S12D
5/±15	2000/±150 Max.	<0.2% Vout +40mV	<0.5% Vout +50mV	73	UILT15-5S15D

Input Specifications		Output Specifications	
Voltage range	90-264 Vac	Voltage, Vdc	5/±12 UILT15-5S12D
	120-370 Vdc		5/±15 UILT15-5S15D
Frequency, Hz	47-440	Voltage accuracy, %	±3%
Current, mA	310 Max. (115 Vac) (Full load)	Current, mA	2000/±200 Max. UILT15-5S12D 2000/±150 Max. UILT15-5S15D
	170 Max. (230 Vac) (Full load)	Line Regulation, % (LL-HL)	±1 / ±5 Typ.
Inrush current, A (<2ms)	10 Max. (115 Vac)	Load Regulation, % (5-100%)	±2 / ±5 Typ.
	20 Max. (230 Vac)	Minimum Load	5V 10% (200 mA)
Leakage current, mA	0.75 Max.	Maximum Capacitive Load, uF	14000 / ±900 UILT15-5S12D 14000 / ±680 UILT15-5S15D
		Ripple, (Vp-p)	<0.2% Vout +40mV Max.
External fuse, A	1.5 slow blow type	Noise, (Vp-p)	<0.5% Vout +50mV Max.
		Efficiency, %	73
		Hold-up Time, ms	15 Min.

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General Specifications

Over Power Protection	Hiccup technique, auto-recovery
Over Voltage Protection	Zener diode clamp
Short Circuit Protection	Hiccup mode, indefinite (automatic recovery)
Input-Output (Vac)	3000V
Input-FG (Vac)	1500V
Output-FG (Vac)	500V

Environmental Specifications

Operating temperature, °C	With derating	-25 Min.	70 Max.
Temperature coefficient, %/°C	±0.02		
Storage temperature, °C	Non-operational	-40 Min.	85 Max.
Cooling	Free air convection		
Humidity	95% RH		

Physical Specifications

Design meet safety standard	UL/cUL, CE
Dimensions, inches (mm)	2.91 × 2.13 × 0.86 (74.1 × 54.1 × 21.8) Tolerance ±0.5 mm
Case Material	Plastic resin (flammability to UL 94V-0)
Weight, g	114
MTFB	>200,000 h @ 25°C (MIL-HDBK-217F)

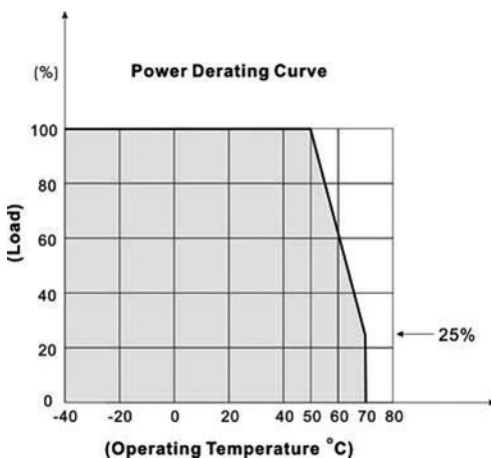
EMC Specifications

EMI conduction and radiation	EN 55022	Class B
EMS immunity	EN 55024	

Note:

1. Ripple & noise are measured at 20MHz of bandwidth with 0.1µF & 47µF parallel capacitor.
2. It's recommended to add Varistor 14S471K at L / N input side in parallel.

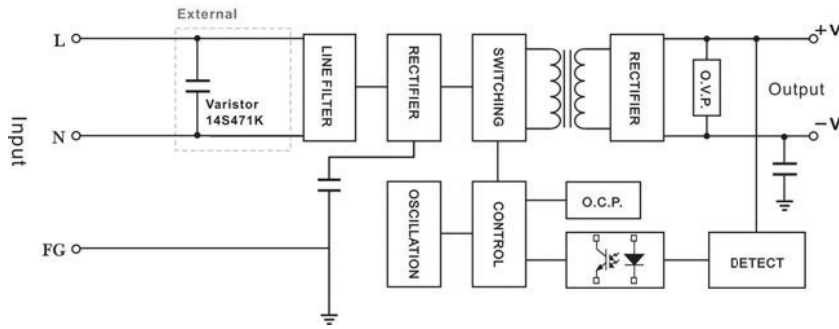
Characteristic Curve



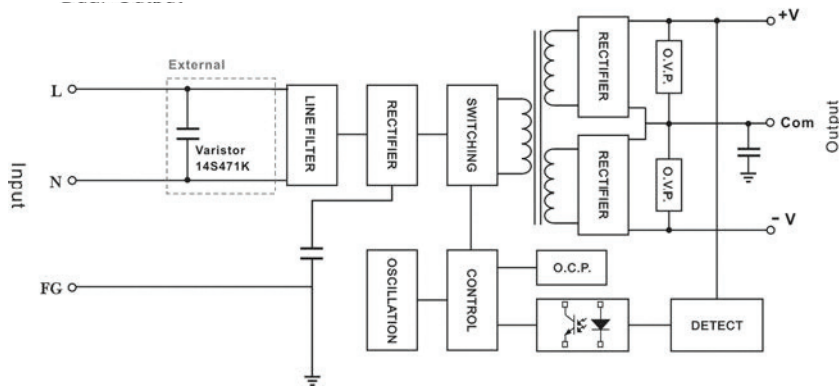
UILT15 SERIES

Circuit Schematic

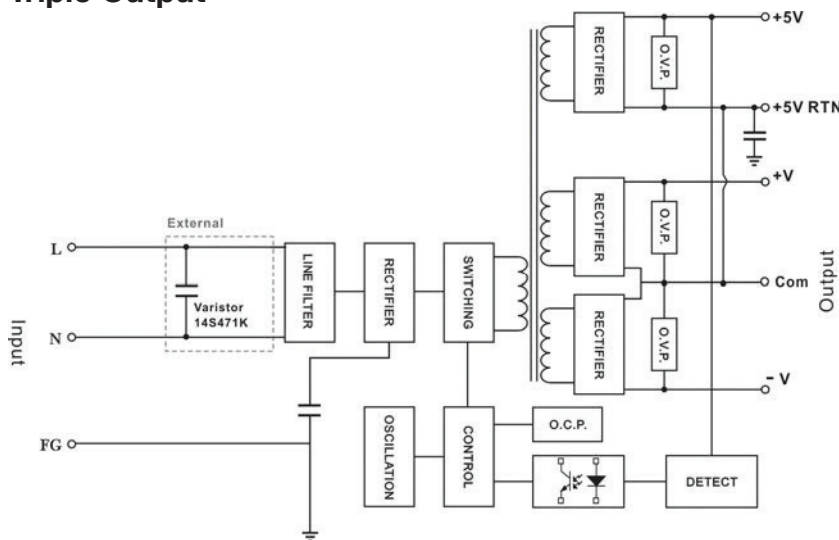
Single Output



Dual Output

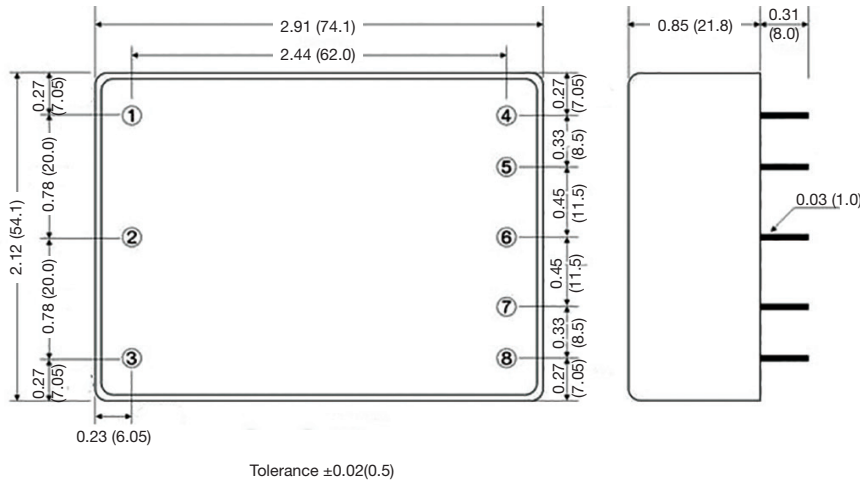


Triple Output



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Mechanical Drawing



PIN CONNECTION

PIN	SINGLE	DUAL	TRIPLE
1	FG	FG	FG
2	AC IN (N)	AC IN (N)	AC IN (N)
3	AC IN (L)	AC IN (L)	AC IN (L)
4	NO PIN	NO PIN	-DC OUT
5	-DC OUT	-DC OUT	COMMON
6	NO PIN	COMMON	+DC OUT
7	+DC OUT	+DC OUT	+5V RTN
8	NO PIN	NO PIN	+5V OUT

1. All dimensions in inches (mm)
2. All tolerances are ± 0.50