



ETA-USA

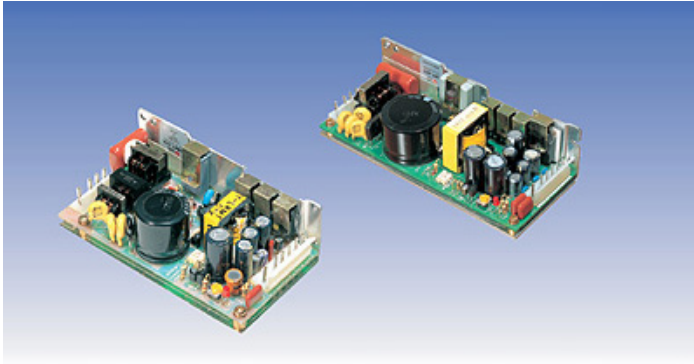
HIGH QUALITY SWITCHING POWER SUPPLIES

**AC/DC SWITCHING POWER SUPPLY
SINGLE CHANNEL OUTPUT
15 WATTS
UNIVERSAL INPUT**

LRM-SX SERIES

General Description

The LR series have a universal input range without any selection. They are small in size, low price, and are highly reliable due to their simple circuitry.



Application

Broad needs

Input

Input Voltage:	AC100-240V
Input Voltage Range:	AC85~264V
Input current:	~0.32A
Frequency:	50/60 Hz
Frequency Range:	47~440Hz
Phase:	Single
Inrush Current: *1	20A(Typ.) at AC264VAC

Features

1. Small-sized and lightweight
2. Two ways mountable
3. Short circuit protection (no more than ten minutes)

Options

Wire harness set (40cm)

Vertical/horizontal mount

Certified:





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Output Characteristic	Unit	Models			
		LRM05SX	LRM12SX	LRM15SX	LRM24SX
Output Voltage	V _{dc}	5	12	15	24
Output Current	A	3	1.5	1.2	0.75
Voltage Adjust Range	V	±5% of Rated Output Voltage (at no load within the input range)			
Ripple & Noise(max)	mV _{pp}	100			
Rise time	mS	300 max			
Hold up time	mS	12 mS typical			
Regulation					
a. Line Regulation [max]	mV	±0.5% of rated voltage			
b. Load Regulation	mV	±1% of rated voltage			
c. Temperature Coefficient	°C	0.03%/°C			
d. Drift(maximum)	mV	(Output voltage *0.5%+15)/8H			
Efficiency *1	%	70	79	80	83
Power Factor *1		No PFC needed			



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Environmental Specification	
Operating Temperature*3	0 to +50 °C
Derating Curve	Not available
Operating Humidity	20~85[%RH] (non-condensing)
Storage Temperature	-20 to +85°C
Storage Humidity	10~85%/RH(non-condensing)
Withstanding Voltage	No information
Isolation Resistance	Primary-Secondary-Frame Ground 50MΩ(minimum) by DC500V insulation tester
Vibration	5~10Hz: 10mm XYZ Axis. 10~55Hz:19.6 m/ s ² XYZ Axis.
Shock	294 m/s ² on x,y,z axis
Cooling	Convection
Leakage current	0.5mA
Environmental Agencies	
Line Conducted Noise [EMI]	FCC Part 15 class A compliant
Line Harmonic Distortion/Current	No info available
Safety	Built to meet UL standards
Function/Protection	
Over current Protection	Current limiting device
Over voltage Protection	Overvoltage clamp
Short circuit Protection	Available, not longer than 10 minutes.
Remote Sense	Not available
Remote Control	Not available
Series Operation	No information available
Parallel Operation	No information available
Input Fuse	No information available
Mechanical	
Dimension [mm]	60W × 110L × 40H
Weight [g] (typical)	220g

Conditions:

*1 Rated input and Rated output

*2 at Output current quick change 25% to 75%

*3 At 100% load (convection cooling)



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Efficiency

■ 出力電流と効率

LRM05SX

