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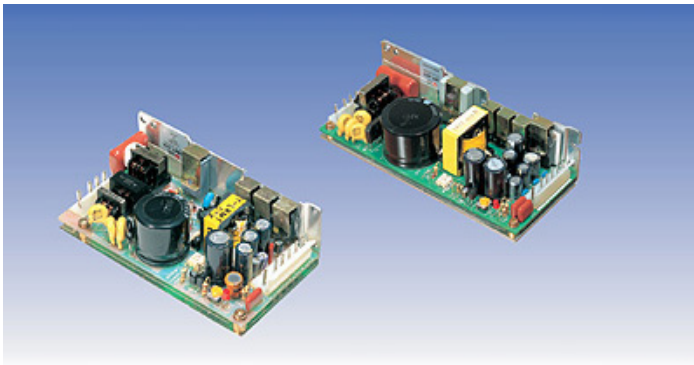
HIGH QUALITY SWITCHING POWER SUPPLIES

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

LRM-FWX 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:



ETA USA

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| Output Characteristic | Unit | Models | | | | | |
|----------------------------|------------------|---|-----|-----------|-----|-----------|-----|
| | | LRM22FWX | | LRM23FWX | | LRM24FWX | |
| | | V1 | V2 | V1 | V2 | V1 | V2 |
| Output Voltage | V _{dc} | 12 | 12 | 15 | 15 | 23 | 5 |
| Output Current | A | 0.2~0.8 | 0.5 | 0.2~0.5 | 0.5 | 0.2~0.8 | 0.8 |
| Voltage Adjust Range | V | ±5% of Rated Output Voltage (at no load within the input range) on V1 | | | | | |
| 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 Output Voltage | | | | | |
| b. Load Regulation | mV | ±1% of Rated Output Voltage | | | | | |
| c. Temperature Coefficient | °C | 0.03%/°C | | | | | |
| d. Drift(maximum) | mV | (Output voltage *0.5%+15)/8H | | | | | |
| Efficiency *1 | % | 73 | | 73 | | 67 | |
| 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] | 60 × 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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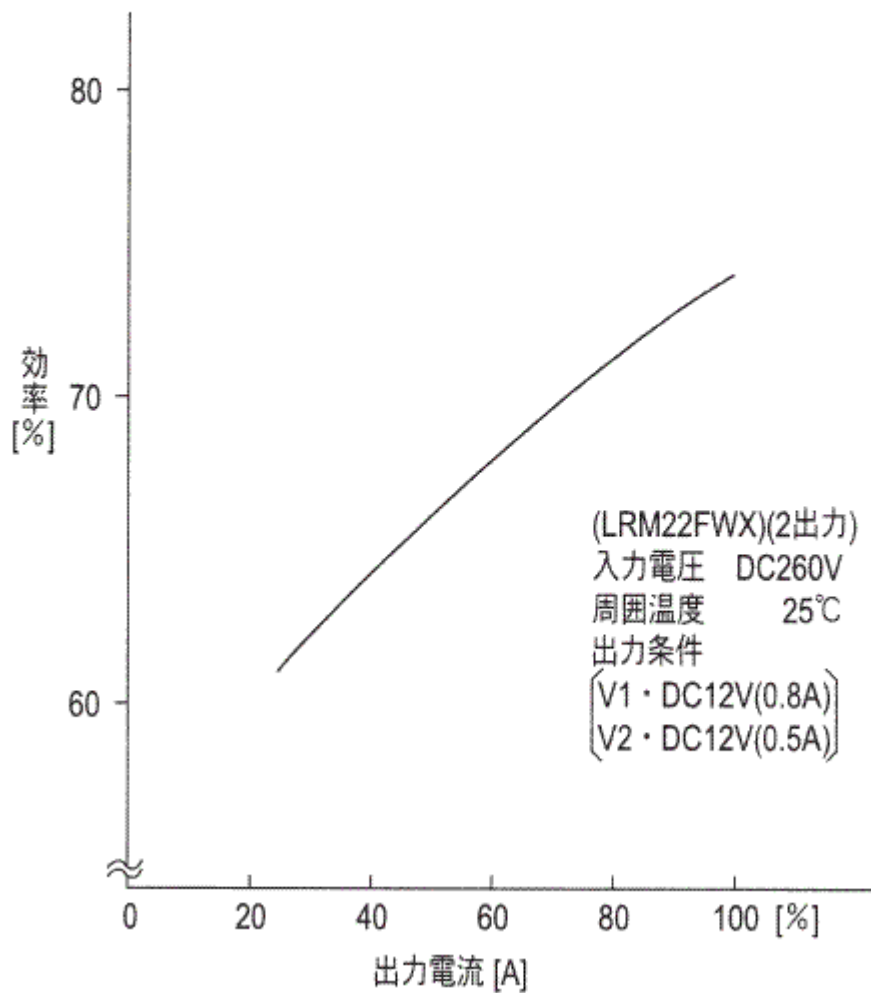
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HIGH QUALITY SWITCHING POWER SUPPLIES

Efficiency Diagram

■ 出力電流と効率

LRM22FWX





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HIGH QUALITY SWITCHING POWER SUPPLIES

Mechanical Drawings Dimension in mm

