











25 W Wide Input Range DIN Rail Power Supply

LDW25 Series are 25 W single- or two-phase wide input range DIN rail power supplies.

Its compact size, high efficiency, excellent reliability together with easy installation due to pluggable connectors makes it market leader for various industrial and renewable energy applications and applications with harsh main conditions.

LDW25 Series are Class II isolation devices designed to be mounted on DIN rail and installed inside a protective enclosure.

### **FEATURES**

- Single or two or phase AC input 90 550 VAC or wide DC input voltage range 150 - 725 VDC
- Output voltages 12 V 24 V, 48 V (adjustable)
- Operating temperature range -40°C to +70°C with derating
- Overload 130%
- Compliant to renewable energy system and high voltage DC BUS
- Models with suffix S have conformal coating on PCB
- Class II insulation
- Simplified wiring (no PE connection)
- Compact size in plastic enclosure (circuit breaker shape)
- Dimensions: 72 x 114.2 x 61.5 mm

### **APPLICATIONS**

- Industrial control and instrumentation equipment
- Renewable energy applications
- Harsh environment applications



# 1. MODEL SELECTION

MODEL <sup>1</sup>	INPUT VOLTAGE RANGE	# OF PHASES	OUTPUT VOLTAGE	MAX OUTPUT CURRENT	EFFICIENCY	MAX OUTPUT POWER
LDW25-12 LDW25-12S						25 W
LDW25-24						



# 2. INPUT SPECIFICATIONS.

PARAMETER	DESCRIPTION / CONDITIONS	SPECIFICATION	
AC Input Voltage	Nominal 1 / 2 phases Range	120 - 500 90 - 550	

# 3. OUTPUT SPECIFICATIONS

PARAMETER	DESCRIPTION / CONDITIONS	SPECIFICATION



### 4. PROTECTIONS

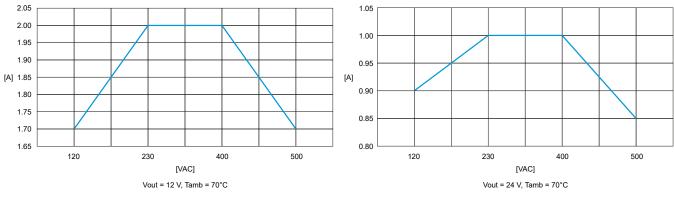
PARAMETE	R	DESCRIPTION / CONDITIONS	SPECIFICATION

# 5. ENVIRONMENTAL, EMC & SAFETY SPECIFICATIONS

PARAMETER	DESCRIPTION / CONDITIONS	SPECIFICATION
		4.2 kVDC
Safety Standards & Approvals	UL 508 (certified) IEC/EN 61010-1 IEC/EN 61010-2-201 IEC/EN 60950	
EMC Emissions	EN 55011 / CISPR 11 EN 55022 / CISPR 22	Class B Class B
EMC Immunity	EN 61000-4-2 EN 61000-4-3 EN 61000-4-4 EN 61000-4-5 EN 61000-4-11	Level 3 Level 3 Level 3 Level 4 Level 2
Protection Degree	EN 60529	IP20
Vibration Sinusoidal	IEC 60068-2-6	5 - 17.8 Hz: ±1.6 mm; 17.8 - 500 Hz: 2 g 2 hours / axis (X,Y, Z)
Shock	IEC 60068-2-27	30 g 6 ms, 20 g 11 ms; 3 bumps / direction, 18 bumps total



### 6. **DERATING CURVES**



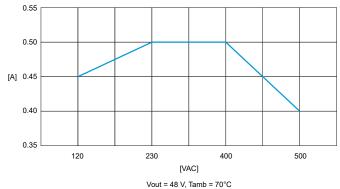
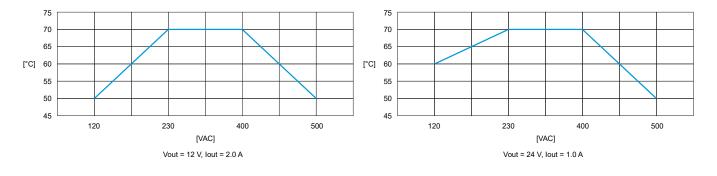


Figure 1. Input voltage vs Output current derating



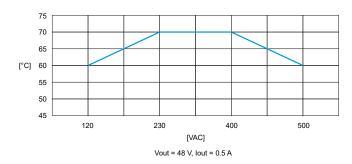


Figure 1. Input voltage vs Temperature derating



### 7. MECHANICAL SPECIFICATIONS

PARAMETER	DESCRIPTION / CONDITIONS	SPECIFICATION
Dimensions		72 x 114.2 x 61.5 mm 2.83 x 4.5 x 2.42 in

### 8. PIN LAYOUT & DESCRIPTION



PIN	DESCRIPTION			
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INPUT	CONNECTION	Single-phase	Two-phase	DC Input
INPUT			Two-phase L1 = Phase 1 (1) L2 = Phase 2 (3)	DC Input L (L1) = + Positive DC (1) N (L2) = - Negative DC (3)
		Single-phase L = Line (1)	L1 = Phase 1 (1) L2 = Phase 2 (3)	L (L1) = + Positive DC (1)



### 9. MECHANICAL DRAWING

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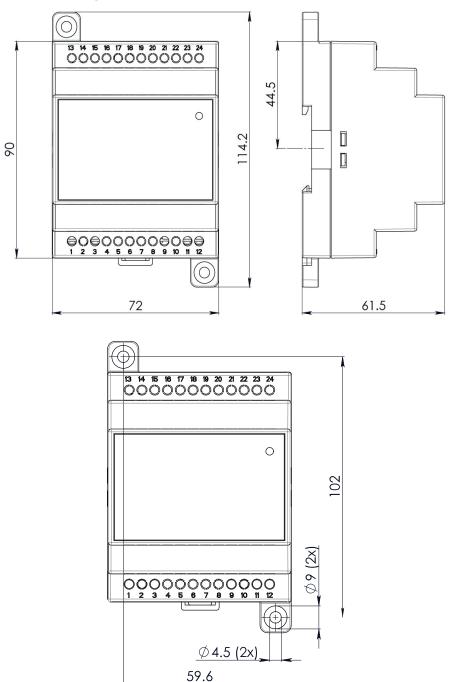


Figure 1. Mechanical Drawing

#### Notes:

Technical parameters are typical, measured in laboratory environment at 25°C and 240 VAC / 50 Hz, at nominal values, after minimum 5 minutes of operation. Power rating, losses, efficiency, ripple, thermal behaviour and start-up may change outside of the nominal rated input range. Contact factory for details.

**NUCLEAR AND MEDICAL APPLICATIONS** - Products are not designed or intended for use as critical components in life support systems, equipment used in hazardous environments, or nuclear control systems.

**TECHNICAL REVISIONS** - The appearance of products, including safety agency certifications pictured on labels, may change depending on the date manufactured. Specifications are subject to change without notice.

