

## **USER GUIDE**

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UG-M105 2023-08-23

### **SOLO-24 Power Adapter**

#### **Compact Plug-and-Play 24VDC Power**

The Solo-24 Power Adapter is a compact, plug-and-play, wall mountable power supply that connects directly to a single RLH Fiber Link module without the need for any additional wiring. It has a standard 3 prong AC power input plug to connect to a mains outlet, and a DC power output connector that plugs into the module, resulting in a simple, user friendly power solution.

The power adapter features a universal AC input of 85-264VAC 50/60Hz, regulated 24VDC output, and is designed for class I operation in industrial and residential environments. It comes complete with a 4 foot AC power cord and a Velcro® strap to manage excess cable.

The Solo-24 is the perfect power solution for a single unit equipment room or office installations where an AC mains outlet is nearby, or for equipment testing and maintenance.

### **Key Features**

- Wide operating temperature, -30°C – +70°C (-22°F ~ +140°F)
- Fully enclosed plastic case
- DC output power connector attaches directly to equipment
- Optional mounting bracket for wall and DIN rail applications
- Universal AC input, full range
- LED Indicator for power ON status
- No load power consumption <0.3W
- High efficiency across full load range
- Overload, over voltage, and short-circuit protection
- 24VDC output for use with a variety of RLH DIN mount equipment
- Low ripple and noise



SOLO-24 Power Adapter



Attach the DIN clip provided with the bracket to easily install on a DIN rail. Mount, strap, & plug-in to power Fiber Link products requiring 24VDC.

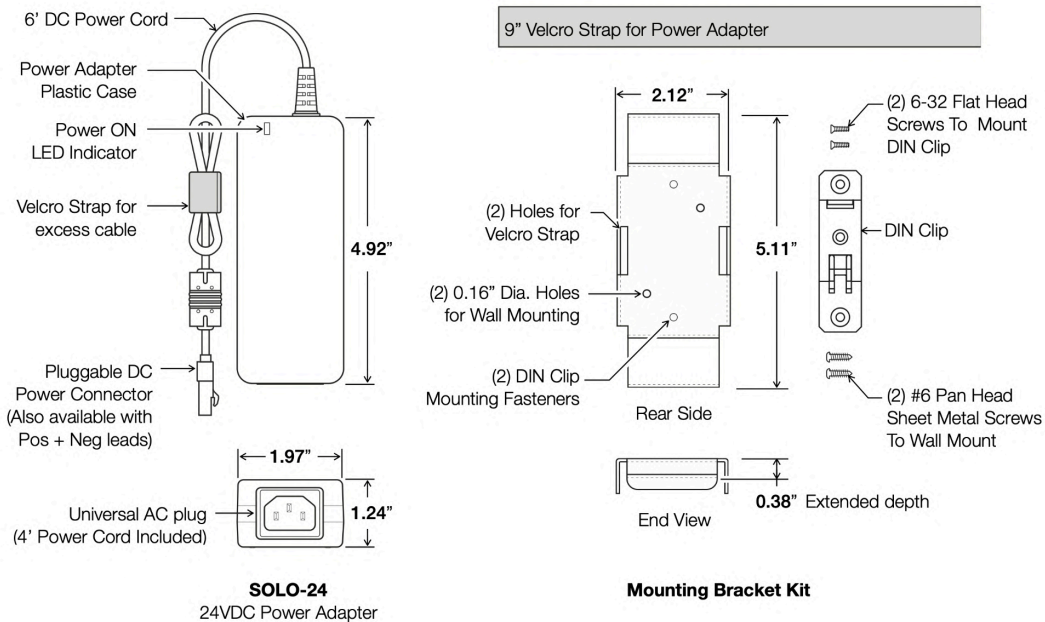
Easily adapts to any wall location. Screw into place, strap it down, & plug-in for system powering on wall applications.



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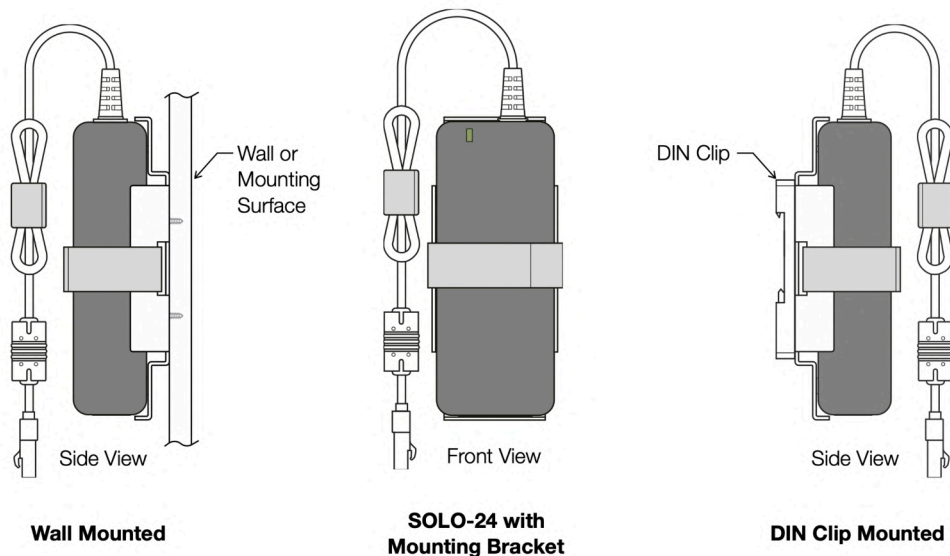
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### Dimensional & Feature Information



### Mounting Bracket Installation Examples

Mounting the power adapter is easy with the optional mounting bracket kit. Mount the bracket to a wall with the provided hardware and strap the power adapter into place. For DIN rail applications, attach the provided DIN Clip to the bracket and mount on a DIN rail.



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### Key Specifications

<b>DC Output:</b>	DC Voltage	24V
	Rated Current	1.67A
	Current Range	0 ~ 1.67A
	Rated Power	40W
	Ripple and Noise (max)	180mVp-p
	Voltage Tolerance	±2.5%
	Line Regulation	±1.0%
	Load Regulation	±2.5%
	Setup, Rise Time	1000ms, 30ms (115/220VAC) at full load
	Hole Up Time (typ.)	50ms/230VAC, 15ms/115VAC at full load
<b>Input:</b>	Voltage Range	90~264VAC, 127~370VDC
	Frequency Range	47~63Hz
	Efficiency (typ.)	91%
	AC Current (typ.)	1A/115VAC, 0.5A/230VAC
	Inrush Current (max)	65A 230VAC
	Leakage Current	0.75mA / 240VAC
<b>Protection:</b>	Overload	105 ~ 150% rated output power Type : Hiccup mode, recovers automatically after fault condition removed
	Over Voltage	25.2~32.4V Type : Shut down o/p voltage, re-power on to recover
<b>Environment:</b>	Dimensions	1.97" (W) x 1.24" (D) x 4.92" (H), (50 mm x 32 mm x 125 mm)
	Working Temperature	-30°C to +70°C (refer to output load derating curve)
	Working Humidity	20 ~ 90% RH non-condensing
	Storage Temperature, Humidity	-40°C to +85°C, 10 ~ 95% RH
	Temperature Coefficient	±0.03%/°C (0 ~ 50°C)
<b>Safety &amp; EMC:</b>	Withstand Voltage	I/P-O/P:3KVAC, I/P-FG:2KVAC, O/P-FG:0.5KVAC
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC

#### NOTES:

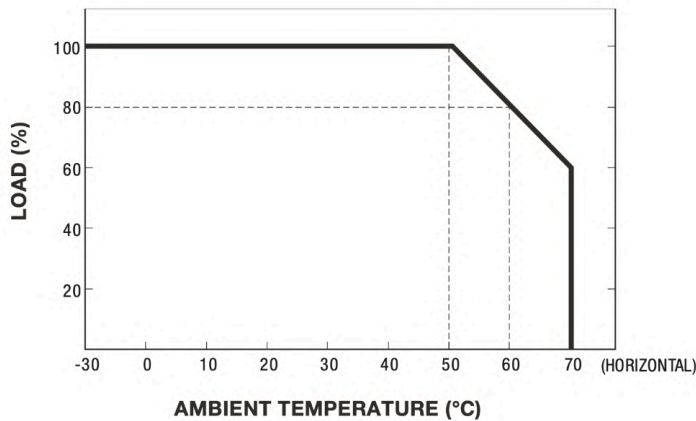
Ripple & Noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.  
Voltage Tolerance : includes set up tolerance, line regulation and load regulation.  
The power supply is considered a component which will be installed into a final equipment.

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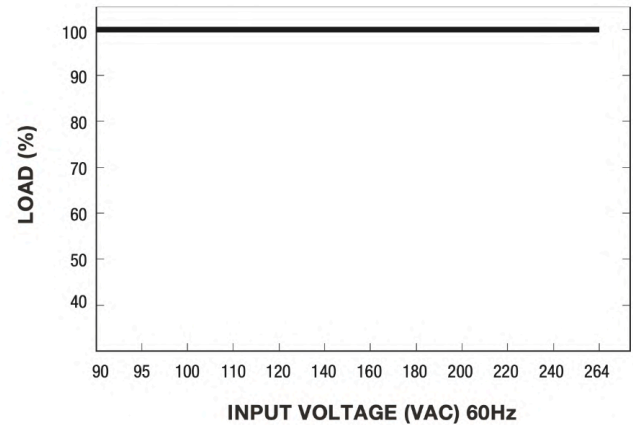
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### Power Characteristics

**Derating Curve**



**Static Characteristic**



### Ordering Information

Description	Part Number
40 Watt Solo AC/DC Power Adapter, 24 Volt DC Output with Pluggable Output Connector	SOLO-24-1
40 Watt Solo AC/DC Power Adapter, 24 Volt DC Output with Pluggable Output Connector, includes DIN/Wall mounting bracket	SOLO-24-1-MBK
40 Watt Solo AC/DC Power Adapter, 24 Volt DC Output with Positive and Negative Leads	SOLO-24N-1
40 Watt Solo AC/DC Power Adapter, 24 Volt DC Output with Positive and Negative Leads, includes DIN/Wall mounting bracket	SOLO-24N-1-MBK

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