

Industrial Power Supplies

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Compact DIN Rail Power Supply

Available in 24 and 48vDC models, Perle Industrial-grade Power Supplies are reliable sources of power designed stand up to harsh industrial environments.

- Adheres to a variety of industry-recognized standards to ensure the highest level of durability and adaptability under harsh environmental conditions
- Compact size with standard DIN-Rail attachment
- Universal input range
- Short circuit , overload and over voltage protection
- LED indicator for power



Perle **Industrial-grade Power Supplies** are designed to stand up to **extreme temperatures, surges, vibrations, and shocks** found in **industrial automation, government, military, oil and gas, mining and outdoor applications**.

IDPS 24v and 48vDC power supplies are hardened to provide superior reliability in extended operating temperatures from **-20 to 70C**.

These power supplies are ideal for providing reliable power to:

- [Perle Industrial Ethernet Switches](#)
- [Perle Industrial Temperature Media Converters](#)
- [Perle PoE+ Media Converters](#)
- [Perle Rugged Terminal Servers](#)

	IDPS-24-40-XT	IDPS-48-240-XT	UNO- PS/1AC/24DC/150W	TRIO- PS/1AC/48DC/10
	Output			
Nominal DC Voltage	24 V	48 V	24 V	48 V
Max Current	1.7 A	5 A	6.25 A	10 A
Rated Power	40.8 watts	240 watts	150 watts	480 watts
Ripple and Noise	150 mV p-p		< 40 mVpp	< 50 mVpp
Adjustable	24 - 30 V	48 - 53 V	24 - 28 V	30 to 56 V DC

Voltage
Range

Load De-rating	De-rating from 60C 60% of full load at 70C	De-rating from 40C 0% of full load at 70C	55 °C ... 70 °C (2.5%/K)	55 °C ... 70 °C (2.5%/K)
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Output Connectors	4-pin terminal block (V+,V-,V+,V-)
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Input

Input Voltage Range	85 - 264VAC 120 - 370VDC	85 - 264VAC
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Frequency Range	47 – 63Hz	45 Hz - 65 Hz
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Efficiency (Typical)	88%	85%	>94%	>91%
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AC Current (Typical)	1.1A/115VAC 0.7A/230VAC	2.8A/115VAC 1.4A/230VAC	1.4 A/120 VAC 0.8 A/230 VA	4.6 A/120 VAC 2.4 A/230 VAC
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Inrush Current (Typical)	30A/115VAC 60A/230VAC	27A/115VAC 45A/230VAC	< 50A (typical)	< 15A
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Input Connectors	3-pin terminal block	2-pin terminal block	3-pin terminal block
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Protection

Over Voltage	31.2 - 36V	54 – 60V	-	limited to approx. 60 V DC
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Environmental Specifications

Operating Temperature Ranges	-20 to 70C (-4 to 158F)	-10 to 70C (14 to 158F)	-25 °C to 70 °C (-13 to 158F)
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Storage Temperature Range	-40 to 85C (-40 to 185F)	-20 to 85C (-4 to 185F)	-40 to 85C (-40 to 185F)
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Operating Humidity Range	20 - 90% RH non-condensing	≤ 95 % (at 25 °C, non-condensing)	95 % (at 25 °C, non-condensing)
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Din Rail Mountable	Mounts to standard 35 mm DIN rail in accordance with DIN EN 60175	Mounts to standard 35 mm DIN rail in accordance with DIN EN 60175
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MTBF	301,700 hours based on MIL-HDBK-217F @ 25C	289,900 hours based on MIL-HDBK-217F @ 25C	> 868000 h (40°C) (IEC 61709, SN 29500)	> 500 000 h in acc. with IEC 61709 (SN 29500)
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Product Weight and Dimensions

Weight	0.26kg 0.57lbs	1.12kg 2.5lbs	0.5 kg 1.1lbs	1.9 kg 4.2lbs
Dimensions	40 x 90 x 100mm, 1.57 x 3.54 x 3.94 inches	125.5 x 125.2 x 100mm 4.94 x 4.93 x 3.94 inches	37 x 130 x 125mm	115 x 130 x 152.5mm

Packaging

Shipping Weight	0.29kg 0.64lbs	1.23kg 2.7lbs	0.6 Kg 1.3lbs	2.09 Kg 4.6lbs
Shipping Dimensions	45 x 105 x 110mm 1.8 x 4.1, 4.3 inches	145 x 145 x 125mm 5.7 x 5.7x 4.9 inches	200 x 300 x 70 mm 7.9 x 11.8 x 2.8 inches	200 x 230 x 150 mm 7.9 x 9.0 x 5.9 inches

Standards and Certifications

Safety	UL508, UL60950-1, TUV EN60950-1		EN 60950-1/VDE 0805 (SELV)	EN 60950-1/VDE 0805 (SELV)
Emissions	EN55011, EN55022 (CISPR22)		EN55011, EN55022 (CISPR22)	
	EN61204-3 , Class B EN61000-3-2,-3		EN61204-3 , Class B EN61000-3-2,-3	
Mechanical Stability	Vibration: IEC 60068-2-6		Vibration: IEC 60068-2-6	
EMC and Immunity	EN61000-4-2, 3, 4, 5, 6, 8, 11, EN55024, EN61000-6-2, EN61204-3, heavy industry level, criteria A	EN61000-4- 2,3,4,5,6,8,11, EN55024, EN61000- 6-2 (EN50082-2), heavy industry level, criteria A	Conformance with EMC Directive 2014/30/EU EN 61000-6-2:2005	
Industrial Safety	UL508 (Safety standard for Industrial Control Equipment)			
	Class I, Div. 2 Group A, - B, C, D HazardousLocations T4 approved		UL ANSI/ISA-12.12.01 - Class I, Division 2, Groups A, B, C, D T4 (Hazardous Location)	

Rail applications	-	-	-	EN 50121-4
Environmental	Reach, RoHS and WEEE Compliant		Reach and RoHS Compliant	
Other	EAR99		EAR99	
	HTSUS Number: 8517.62.0050		HSTUS Number: 8504.40.30	
	2 year warranty		1 year warranty	