


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

Output

Nominal DC Voltage	24 V	48V
Current Range	0 - 1.7 A	0 – 5 A
Rated Power	40.8 watts	240 watts
Ripple and Noise	150 mV p-p	
Adjustable Voltage Range	24 - 30 V	48 - 53 V
Voltage Tolerance	±1%	
Line Regulation	±1%	±0.5%
Load Regulation	±1%	
Set-up, Rise Time at full load	500ms, 30ms/230VAC 500ms, 30ms/115VAC	800ms, 40ms/230VAC 800ms, 40ms /115VAC
Hold-up Time (typical) at full load	50ms/230VAC 20ms/115VAC	24ms/230VAC 24ms/115VAC
Load De-rating	De-rating from 60C 60% of full load at 70C	De-rating from 40C 60% of full load at 70C
Output Connectors	4-pin terminal block (V+,V-,V+,V-)	
Input		
Voltage Range	85 - 264VAC 120 - 370VDC	
Frequency Range	47 – 63Hz	

Efficiency (Typical)	88%	85%
AC Current (Typical)	1.1A/115VAC, 0.7A/230VAC	2.8A/115VAC 1.4A/230VAC
Inrush Current (Typical)	Cold start 30A/115VAC 60A/230VAC	Cold start 27A/115VAC 45A/230VAC
Leakage Current	< 1mA / 240VAC	< 3.5mA / 240VAC
Input Connectors	3-pin terminal block	

Protection

Overload Power	105 - 150% rated output power	
Overload Protection Type	Constant current limiting, recovers automatically after fault condition is removed	
Over Voltage	31.2 - 36V	54 – 60V
Over Voltage Protection Type	Shut down o/p voltage, re-power on to recover	
Over Temperature	N/A	100 C ±5 %
Over Temperature Protection Type	Relay contact rating(max.): 30V/1A resistive. 2-pin terminal block. Contact closure = On	N/A

Environmental Specifications

Operating Temperature Ranges	-20 to 70C (-4 to 158F)	-10 to 70C (14 to 158F)
Storage	-40 to 85C (-40 to 185F)	-20 to 85C (-4 to 185F)

Temperature Range

Operating Humidity Range 20 - 90% RH non-condensing

Storage Humidity Range 10 - 95% RH

Din Rail Mountable Mounts to standard 35 mm DIN rail in accordance with DIN EN 60175

MTBF 301,700 hours based on MIL-HDBK-217F @ 25 C 289,900 hours based on MIL-HDBK-217F @25 C

Product Weight and Dimensions

Weight 0.26kg, 0.57lbs 1.12kg, 2.5lbs

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

Packaging

Shipping Weight 0.29kg, 0.64lbs 1.23kg, 2.7lbs

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

Standards and Certifications

Safety UL508, UL60950-1, TUV EN60950-1

Emissions EN55011, EN55022 (CISPR22), EN61204-3 , Class B EN61000-3-2,-3 EN55011,EN55022 (CISPR22) Class B, EN61000-3-2,-3

Mechanical Stability Vibration: IEC 60068-2-6 Component : 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes

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

Industrial
Safety

UL508 (Safety standard for Industrial Control Equipment)

Environmental

[Reach, RoHS and WEEE Compliant](#)

Other

ECCN: 5A991

HTSUS Number: 8504.40.6001

HTSUS Number: 8504.40.6012

2 year warranty
