Industrial Power Supplies

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 Temperature Range	-40 to 85C (-40 to 185F)	-20 to 85C (-4 to 185F)
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: 5A991A	
	HTSUS Number: 8504.40.6001	HTSUS Number: 8504.40.6012
	2 year warranty	

Site Map ♦ Legal Information ♦ Privacy Policy