



DVI-7520-PDU
Power Distribution Unit
8x +12 VDC, 200W

DVI-7525-PDU
Power Distribution Unit
8x +5 VDC, 200W

AV Power Management – Many AV products require the use of external AC power supply units (PSU) to power their internal electronic circuitry. These external PSUs (wall warts) can pose a major challenge to system designers as they occupy valuable space within AV equipment racks where there are a limited number of AC outlets. Furthermore, some external PSUs are poorly designed and ill-suited for use in high profile applications.

Exceptional Reliability – DVIgear's DVI-7520-PDU and DVI-7525-PDU Power Distribution Units are engineered from the ground up for 24/7 mission critical applications. These units offer an unprecedented level of reliability with an MTBF of greater than 220,000 hours. The DVI-7520-PDU provides +12 VDC power while the DVI-7525-PDU provides +5 VDC. The units each have an overall power reserve of 200 watts as well as eight outputs. Each output is rated for 25 watts. These features allow system designers and facility managers to optimize power management through more efficient use of rack space, which makes these units ideal solutions for a wide range of professional applications.

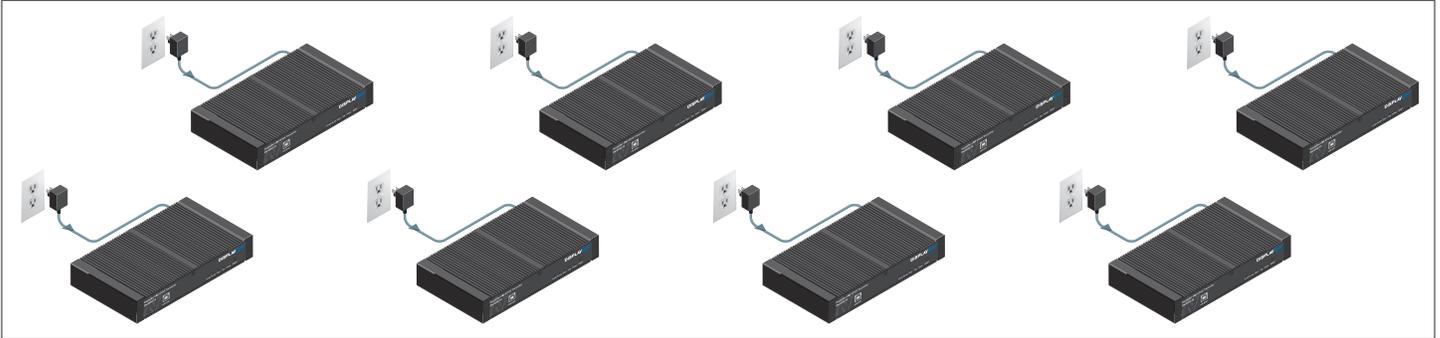
Advanced Design – Each unit is housed in a rugged 1U half-rack mountable enclosure. They accept AC line voltages auto-ranging from 88-264 VAC and AC line frequencies from 47-63 Hz. All outputs include extensive protection against overload, over-voltage and over-temperature. Versatile and reliable Phoenix connectors allow for universal connections to various products that require +12 VDC or +5 VDC power.

FEATURES

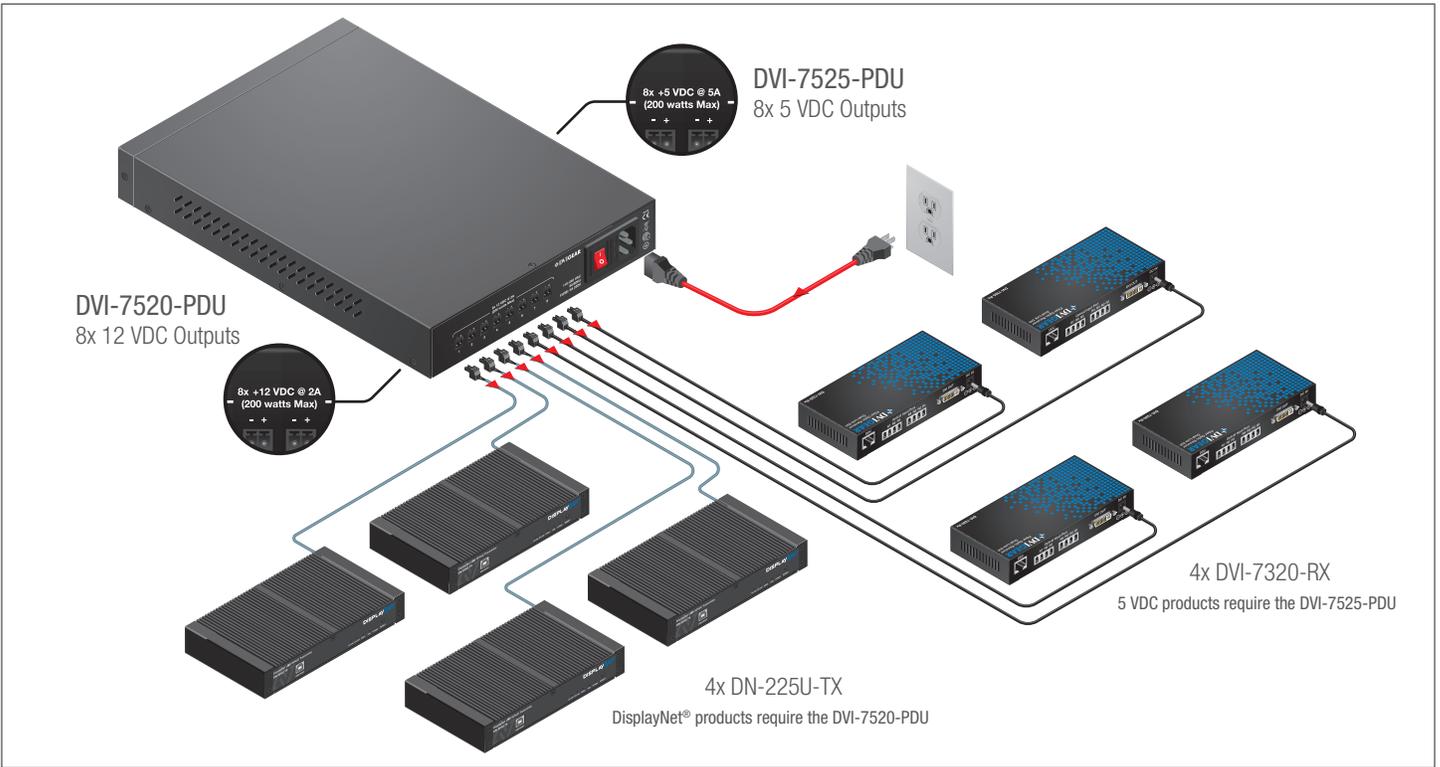
- 1U half-width rack-mountable power supply – designed for 24/7 continuous operation in mission critical environments
- High reliability – greater than 220,000 MTBF
- DVI-7520-PDU ideal for use with DVIgear's DisplayNet® Transmitters and Receivers as well as DVI-75xx HDBaseT Extenders.
- Universal AC input (88-264 VAC)
- 8x +12 VDC (DVI-7520-PDU) or +5 VDC (DVI-7525-PDU) outputs on Phoenix connectors
- DVI-7520-PDU: ~2.0A / 25 watts per output, 16.7A / 200 watts total
DVI-7525-PDU: ~5.0A / 25 watts per output, 40.0A / 200 watts total
- Built-in active PFC function
- High efficiency – up to 89% (DVI-7520-PDU) and 85.5% (DVI-7525-PDU)
- Includes protection for overload, over-voltage and over-temperature
- 3 year parts and labor warranty

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TYPICAL OPERATION WITHOUT DISTRIBUTED POWER



APPLICATION WITH DISTRIBUTED POWER



DVI-7520-PDU / DVI-7525-PDU FRONT AND REAR VIEWS



DVI-7520-PDU Front View



DVI-7525-PDU Front View



DVI-7520-PDU Rear View



DVI-7525-PDU Rear View

SUPPLIED ACCESSORIES



Power Extension Cable
DVI-7520-PSX

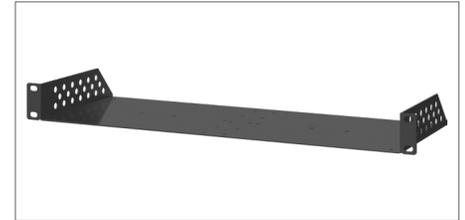
This 5.2 ft. (1.6 m) 18AWG cable has a 2-pin Phoenix connector at one end and a screw lock 5.5mm power connector at the other end, which is compatible with DVIgear's DisplayNet® product family. 8x of these cables are included with the DVI-7520-PDU.



2-Pin Phoenix Connector
Phoenix p.n. 1916384

This 2-pin Phoenix connector enables the fabrication of power supply extension cables using 18AWG cables (recommended length should not exceed 6 ft.). 8x of these connectors are included with the DVI-7525-PDU.

OPTIONAL RACK MOUNT KIT



Rack Mount Kit
DVI-7520-RMK

This 1U high rack mount kit provides mounting holes for fastening two side-by-side Power Distribution Units, or two other half-rack width units.

OPERATIONAL SPECIFICATIONS

	DVI-7520-PDU	DVI-7525-PDU
Model Description	Power Distribution Unit – 8x 12VDC, 200W	Power Distribution Unit – 8x 5VDC, 200W
Output Voltage	+12 VDC	+5 VDC
DC Power Outputs	8x	8x
Internal Power Supplies	1x	1x
Total Output Power	200 watts	200 watts
Total Output Current	16.7A	40.0A
Maximum Power per Output	25 watts	25 watts
Maximum Current per Output	~ 2.0A	5.0A
Max. AC Current (115 / 230 VAC)	2.5A / 1.3A	
AC Line Input Voltage Range	88-264 VAC	
AC Line Input Frequency Range	47-63 Hz	
AC Power Input Connector	IEC C14 power connector	
DC Power Output Connectors	2-pin, 3.5 mm pitch Phoenix connectors	
MTBF	> 220,000 hours	
Operating Temperature	-22° to +158° F (-30° to +70° C)	
Rack Height	1U, 1/2 rack width	
Enclosure	Metal enclosure with jet black finish	
Dimensions (W x D x H)	8.5" x 12.1" x 1.7" (214.9 mm x 308.1 mm x 42.4 mm)	
Net Weight	5.1 lbs. (2.30 kg)	
Compliance	FCC, CE, RoHS, UL – internal power supply	
Warranty	3 years Parts and Labor	
Power Extension Cables and Connectors ⁽¹⁾	<p>DVI-7520-PSX: 1.6m, Screw Lock 5.5 x 2.1 x 10mm to 2-pin Phoenix (8x included)</p> <p>Optional: DVI-7231-PSX: 1.6m, 5.5 x 2.0 x 9.5mm to 2-pin Phoenix</p>	<p>Phoenix p.n. 1916384: 2-Pin, 3.5mm pitch male connector (8x included)</p> <p>Optional: DVI-7221-PSX: 1.6m, 5.5 x 2.5 x 9.5mm to 2-pin Phoenix DVI-72091-PSX: 1.6m, 3.5 x 1.35 x 9.5mm to 2-pin Phoenix DVI-7331-PSX: 1.6m, USB Micro-B Male to 2-pin Phoenix</p>
Optional Rack Mount Kit	DVI-7520-RMK Rack Mount Kit	DVI-7520-RMK Rack Mount Kit

Note 1: Power Extension Cables are sold separately unless otherwise noted.

INTERNAL POWER SUPPLY SPECIFICATIONS

Input	DVI-7520-PDU	DVI-7525-PDU
Model Description	Power Distribution Unit – 8x 12VDC, 200W	Power Distribution Unit – 8x 5VDC, 200W
Voltage Range	88 – 264 VAC	
Frequency Range	47 – 63 Hz	
Power Factor (typical)	115 VAC: PF>0.98 (at full load); 230 VAC: PF>0.95	
Efficiency (typical)	89%	85.5%
AC Current (typical)	115 VAC: 2.5A	230 VAC 1.3A
Inrush Current (typical)	115 VAC: 20A	230 VAC 40A
Leakage Current	<1mA @ 240 VAC	
Output		
DC Voltage	+12 VDC	+5 VDC
Rated Current	16.7 A	40.0 A
Current Range	0 – 16.7 A	0 – 40.0 A
Rated Power	200 watts	200 watts
Ripple & Noise (maximum)	150 mVpp	
Voltage Adjustment Range	10 – 13.2 VDC	4.5 – 5.5 VDC
Voltage Tolerance	±1.0%	±2.0%
Line Regulation	±0.3%	±0.5%
Load Regulation	±0.5%	±1.0%
Setup Time, Rise Time	115 VAC: 3000ms, 50ms (at full load); 230 VAC: 1500ms, 50ms	
Hold-up Time (typical)	8ms at full load 115 VAC / 230 VAC	
Protection		
Overload	105 – 135% rated output power Protection type: Hiccup mode, recovers automatically after fault condition is removed	
Over Voltage	13.8 – 16.2 VDC	5.75 – 7.0 VDC Protection type: Shut down output voltage, re-power to recover
Over Temperature	Shut down output voltage, recovers automatically after temperature goes down	
Environmental		
Working Temperature, Humidity	-22° to +158° F (-30° to +70° C), 20-90% relative humidity, non-condensing	
Storage Temperature, Humidity	-40° to +185° F (-40° to +85° C), 10-95% relative humidity	
Temperature Coefficient	±0.03% / °C (+32° to +113° F / +0° to +45° C)	
Vibration	10-500 Hz, 2G 10min./1 cycle, 60 min. each along X, Y, Z axes	
Safety, EMC, Reliability		
Safety Standards	UL60950-1, TUV EN60950-1, CCC GB4943 approved	
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 / 77° F (25° C) / 70% RH	
EMC Emission	Compliance to EN55022 (CISPR22) Class B, EN61000-3-2, -3, GB9254 class B, GB17625.1	
EMC Immunity	Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, EN55024, light industry level, criteria A	
MTBF	Greater than 220,000 hours per MIL-HDBK-217F (at 77° F / 25° C)	

Note 2: All parameters NOT specifically mentioned are measured at 230 VAC input, rated load and 77° F (25° C) of ambient temperature.