www.koolance.com

Specifications Sheet

Generated: 2019-05-21

P/N: PSU-1200ATX-12S

Koolance 1200W Liquid-Cooled Power Supply

In 2001, Koolance offered the world's first water cooled ATX power supply (230W). Koolance now sets a new record with the first **1200 watt** liquid-cooled power supply!

The patented Koolance PSU-1200ATX-12S features 96A (simultaneous 12V@85A) over four 12V rails, and 4 PCI-Express connectors for SLI™ and CrossFire support. It is able to unleash 1200W of continuous (1400W peak) power at greater than 80% efficiency by operating in a completely submerged state. This patent-pending design is superior to even "partly" water cooled and heatpipe power supplies. All internal electronics are immersed in a non-conductive fluid and dissipated through an external heat exchanger.

Being self-cooled, Koolance's 1200W PSU requires no connections to any other type of water cooling system. The unit comes pre-filled and no ongoing coolant maintenance is required. The quiet 120mm LED fan is temperature-controlled and operates between 25-33dBA. An included temperature sensor allows internal monitoring when used with compatible Koolance systems (TMS, RP-1000, PC3-700, Exos-2, and PC4-1000 series).

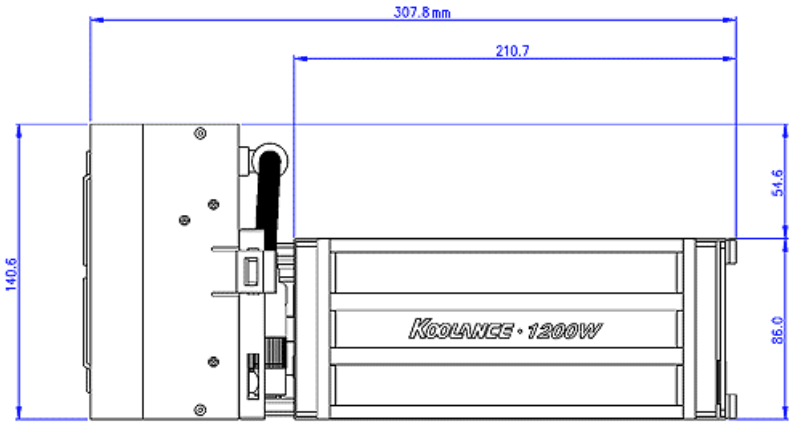
The PSU-1200ATX-12S can be used in most ATX, E-ATX, and BTX chassis that provide for 9" (23cm) power supply depths, including cable space. The external heat exchanger is highly adjustable to maximize chassis compatibility. Being slightly wider than the internal power supply, it can be rotated 180° and moved vertically 2" (5cm) to help avoid physical conflicts. Quick disconnect shutoff valves allow for the convenient attachment of the heat exchanger during installation.

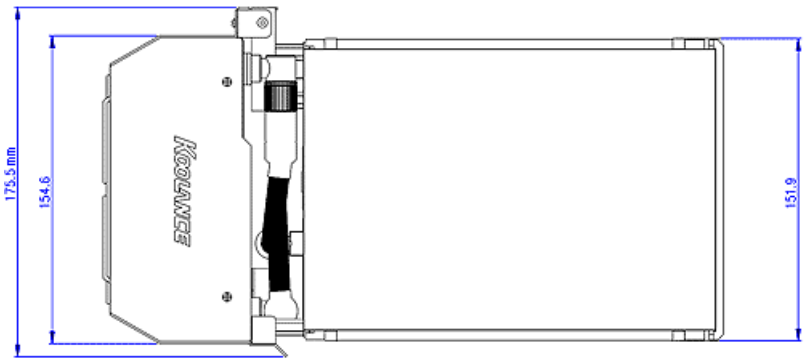
NOTE: The PSU-1200ATX-12S will operate in two mounted directions (standard/upright and on its side). Please see the user manual for details.

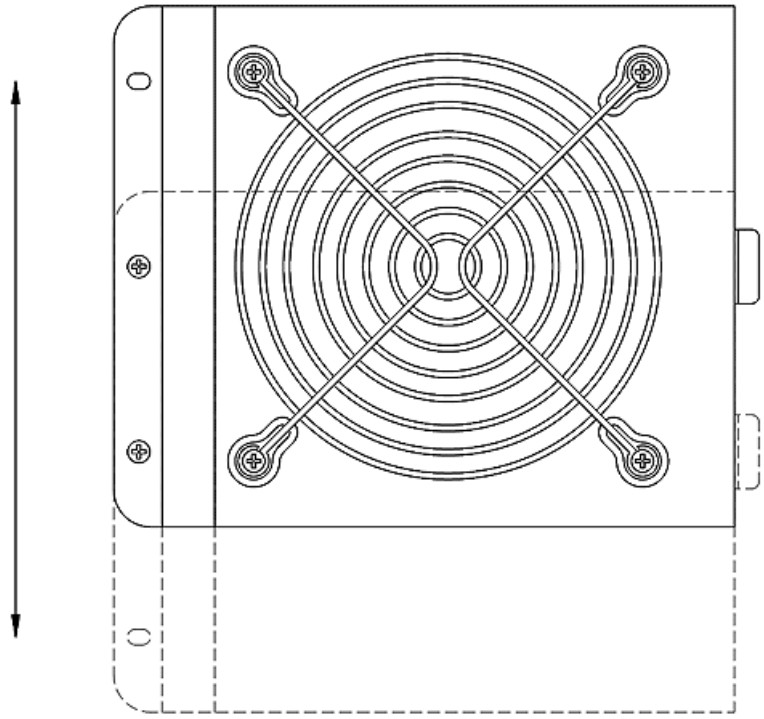
Power Specifications

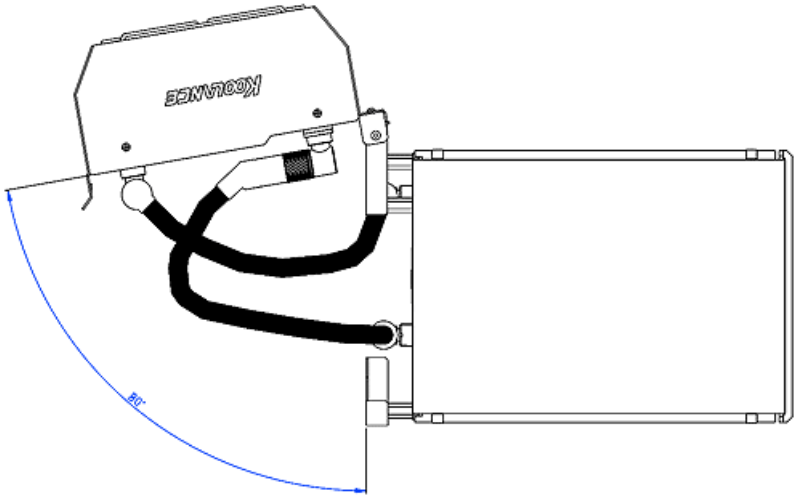
Type	EPS12V
Max. Power	1200W Continuous, 1400W Peak (@ 40°C)
Operating Range	90-264 VAC, Auto Switching
Current	15A @ 115V
Fan	Dual Ball-Bearing 120mm, 30-107CFM, 25-33dBA, Temperature Adjusting
PFC	Active
Efficiency	>80%
Power Factor	>0.9
DC Output	+5V @ 30A +12V @ 96A (12V1@18A, 12V2@18A, 12V3@30A, 12V4@30A); total combined 12V max = 85A -12V @ 0.8A +3.3V @ 30A +5VSB @ 3.0A
Regulation	3% (3.3V, +5V, +12V) +9-5% (-12V)
Ripple	1% (+5V, +5VSB, -12V), 1.5% (+3.3V), 2% (12V)
Hold Time	16ms min.
PG Delay	100~500ms
OV Protection	+3.3V, +5V, +12V (all output to ground)
OC Protection	+3.3V, +5V, +12V (all output to ground)
Temperature	0-40°C (for external heat exchanger only)
Humidity	20-90% RH
Certifications	NVIDIA® SLI™ Ready
Connectors	1 x 24-pin motherboard 1 x 8-pin 12V CPU/motherboard 4 x (1-plug) PCI-E 2 x (3-plug) SATA 2 x (4-plug) Molex peripheral 1 x (4-plug + 1 FD) Molex peripheral + floppy

General	
Weight	19.50 lb (8.85 kg)




175.5 mm
154.6
151.9
KOOLANCE

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90°