




## Koolance Liquid-Cooled Power Supply

			
<b>Item Code</b>	<b>PSU-1200ATX-12S</b>	<b>PSU-1300ATX-12N</b>	<b>PSU-1300ATX-12N</b>
<b>Weight</b>	19.50 lb (8.85 kg)	16.50 lb (7.48 kg)	12.40 lb (5.62 kg)
<b>Type</b>	EPS12V	EPS12V	EPS12V
<b>Max. Power</b>	1200W Continuous, 1400W Peak (@ 40°C)	1300W @ 110V, 1700W @ 220V	1000W
<b>Operating Range</b>	90-264 VAC, Auto Switching	90-264V @ 110V, 180-264V @ 220V, Auto-Switching	110-240VAC, 47-63Hz, Auto-Switching
<b>Current</b>	15A @ 115V	15A @ 110V, 10A @ 230VAC	12A @ 110V, 6A @ 240VAC
<b>Fan</b>	Dual Ball-Bearing 120mm, 30-107CFM, 25-33dBA, Temperature Adjusting	(none)	(none)
<b>PFC</b>	Active	Active	Active
<b>Efficiency</b>	>80%	83-85% @ 110V; 86-87% @ 220V	80% Minimum
<b>Power Factor</b>	>0.9	>0.99	>0.99
<b>DC Output</b>	+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	+5V @ 30A +3.3V @ 30A +12V @ 120A (12V1@20A, 12V2@20A, 12V3@40A, 12V4@40A) 12V1, 12V4, 3.3V total combined power = 650W@110V, 850W@220V 12V2, 12V3, 5V total combined power = 650W@110V, 850W@220V -12V @ 0.8A +5VSB @ 3.5A	+5V @ 30A +3.3V @ 30A (combined +5V and +3.3V is 180W max) +12V @ 70A (12V1@18A, 12V2@18A, 12V3@30A, 12V4@30A) -12V @ 0.8A +5VSB @ 3.0A
<b>Regulation</b>	3% (3.3V, +5V, +12V) +9-5% (-12V)	3% (3.3V, +5V, +12V) +3-5% (5Vsb) 10%(-12V)	3% (3.3V, +5V, +12V) +3-5% (5Vsb) 10%(-12V)
<b>Ripple</b>	1% (+5V, +5VSB, -12V), 1.5% (+3.3V), 2% (12V)	120mV (+12V, -12V), 50mV (3.3V, 5V, 5Vsb)	
<b>Noise</b>		*240mV (+12V, -12V), 100mV (3.3V, 5V, 5Vsb) *When 0.1uF and 47uF capacitors are added across the output terminal during ripple & noise test.	50mV (3.3V, 5V, 5Vsb), 120mV (-12V), 240mV (+12V)
<b>Hold Time</b>	16ms min.	13ms	16ms
<b>PG Delay</b>	100~500ms	100~500ms	100~500ms
<b>Over Voltage Protection</b>	+3.3V, +5V, +12V (all output to ground)	+3.3V, +5V, +12V	+3.3V, +5V, +12V
<b>Under Voltage Protection</b>		+3.3V, +5V, +12V	
<b>Over Current Protection</b>	+3.3V, +5V, +12V (all output to ground)	+3.3V, +5V, +12V	+3.3V, +5V, +12V
<b>Over Temperature Protection</b>		Heat sink: 85°C Alarm, 90°C Power-Off	Heat sink: 85°C Alarm, 90°C Power-Off
<b>Pump Protection</b>			Power-Off on no RPM signal
<b>Operating Temperature</b>	0-40°C (for external heat exchanger only)	0-50°C (External secondary coolant temperature)	0-50°C (External secondary coolant temperature)
<b>Storage Temperature</b>		-10 - 70°C	-10 - 70°C
<b>Humidity</b>	20-90% RH	20-90% RH	20-90% RH
<b>Altitude</b>		0-7000 feet (0-2134m)	0-7000 feet (0-2134m)
<b>Certifications</b>	NVIDIA® SLI™ Ready		
<b>Cables</b>	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	1 x 24-pin motherboard 2 x 8-pin (or 4-pin) 12V CPU/motherboard 4 x 8-pin (1-plug) PCI-E 4 x 6-pin (1-plug) PCI-E 2 x (4-plug) SATA 1 x (4-plug) Molex 1 x (4-plug + 1 FD) Molex peripheral + floppy	1 x 24-pin motherboard 2 x 8-pin (or 4-pin) 12V CPU/motherboard 4 x 8-pin (1-plug) PCI-E 4 x 6-pin (1-plug) PCI-E 2 x (4-plug) SATA 1 x (4-plug) Molex 1 x (4-plug + 1 FD) Molex peripheral + floppy