

# ARTESYN PS1000 AND PL1000

High Availability Power Supply Units



Advanced Energy’s Artesyn PS1000 is a high availability server power supply unit (PSU) developed for hyperscale cloud deployments. The PL1000 PSU is also available with an embedded battery backup unit (BBU). The PS1000 and PL1000 were designed to support an open source hardware development effort through Open Compute Project (OCP) collaboration under the Microsoft Project Olympus initiative. The PS1000 and PL1000 support a new standard building block model for OCP solution providers to develop hardware solutions from a common design.

## DATA SHEET

### Total Power:

1000 W

### Output:

12.25 Vdc

### SPECIAL FEATURES

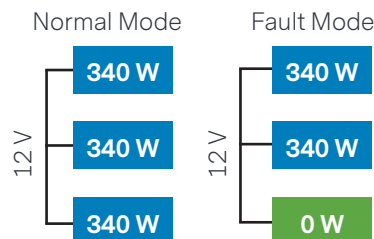
- Fault mode resiliency
- Dynamic maximum input power limit (DMIPL)
- AC feed failure, automatic switchover
- Inrush current control
- N+1 internal redundant
- PMBus® compliant

### COMPLIANCE

- EMC Conducted/Radiated Class A
- EMC EN/IEC 61000
- RoHS

### SPECIAL FEATURES

- UL/CSA 60950 (UL recognized)
- IEC 60950
- CE Mark

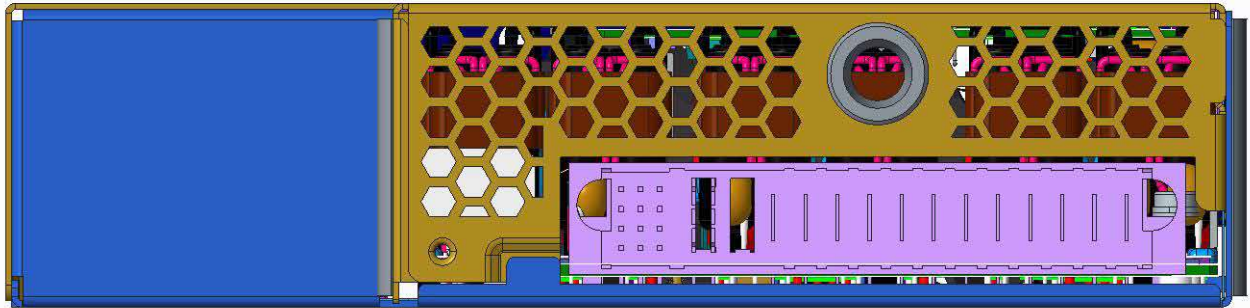


**ELECTRICAL SPECIFICATIONS**

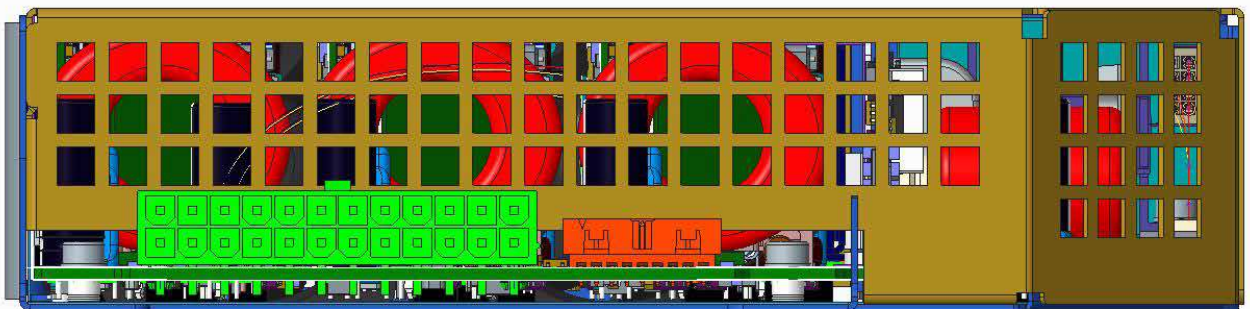
PS1000			
Output power	1000 W total		
Redundancy	680 W N+1 (3 x 340 W PSU modules in parallel)		
Output voltage	12.25 Vdc		
Phases	Dual three-phase AC input with input voltage selector (IVS)		
Efficiency	>92% at full load		
Input voltage	Three-phase 415/400 Vac Wye or 208 Vac Delta or Single-phase 200-240 Vac		
Operating temp	10 °C to 48 °C		
PL1000			
BBU	Embedded 8-cell, 32 V pack battery backup unit		
BBU specification	The battery shall operate for up to 1.0 second at 680 W. Then after that the PSU shall be capable to output 105 kJ between 100 W and 300 W. Typical run times are shown below:		
	Power Level (W)	Runtime (s)	Energy (kJ)
	100	1050	105
	150	700	105
	200	525	105
	250	420	105
	300	350	105
Operating temp	10 °C to 48 °C		

MECHANICAL DRAWINGS

Front view



Rear view



ORDERING INFORMATION

Model Number	Main Output	With Batteries	Availability
PL1000	12.25 V	Y	October 2017
PS1000	12.25 V	N	October 2017



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## ABOUT ADVANCED ENERGY

Advanced Energy (AE) has devoted more than three decades to perfecting power for its global customers. AE designs and manufactures highly engineered, precision power conversion, measurement and control solutions for mission-critical applications and processes.

Our products enable customer innovation in complex applications for a wide range of industries including semiconductor equipment, industrial, manufacturing, telecommunications, data center computing, and medical. With deep applications know-how and responsive service and support across the globe, we build collaborative partnerships to meet rapid technological developments, propel growth for our customers, and innovate the future of power.

**PRECISION | POWER | PERFORMANCE**

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