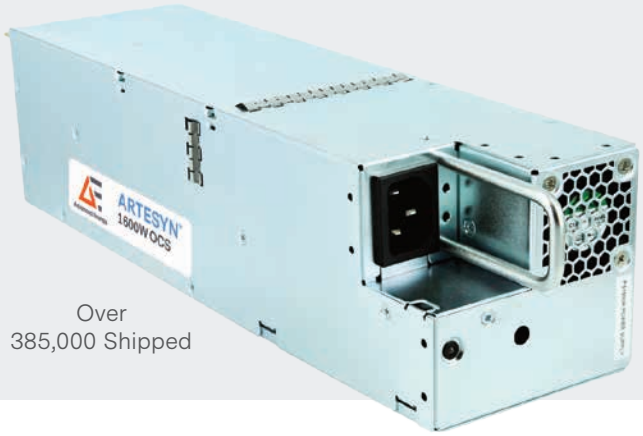
ARTESYN OPEN COMPUTE PROJECT

1600 Watt Open Cloud Server Power Supply v2.0



Over
385,000 Shipped

Advanced Energy's Artesyn 1600 Watt Open Cloud Server Power Supply is designed for Open Compute Project and delivers 1600 Watts. It's key features include flexible chassis/rack, system fan level deployments and the power distribution is with up to six 1600 Watt power supplies in parallel. It has active load sharing from 35-100%. The unit is also available with optional battery backup unit.

- 1600 Watt OCS (Open Compute Server) power supply
- Offers flexible chassis/rack, system fan level deployments
- Power distribution with up to six 1600 Watt power supplies in parallel
- Active load sharing from 35-100% load
- Available with optional battery backup unit
- Local energy storage
- Battery backup maintains output for >35 sec. at full load

Refrence: Open CloudServer OCS V2.0

Specification: http://www.opencompute.org/wiki/Server/SpecsAndDesigns

FEATURES

- 1600 W output power
- High-power and short form factor
- Active Power Factor Correction
- EN61000-3-2 Harmonic compliance
- Inrush current control
- N+1 redundant
- Active current sharing
- PMBus compliant
- Output Oring
- Two-year warranty

COMPLIANCE

- EMI Conducted/Radiated Class A Limits
- + 6 dB margin
- EMC EN/IEC 61000
- RoHS

SAFETY

- UL/cUL 60950 (UL Recognized)
- DEMKO+ CB Report EN60950
- EN60950
- CE Mark

OPEN Compute Project

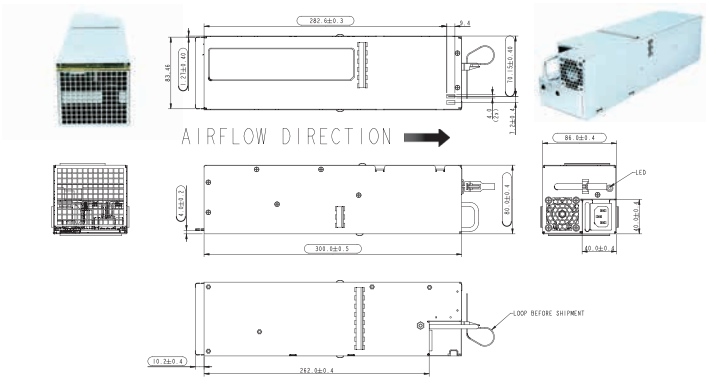
ELECTRICAL SPECIFICATIONS

Input			
Input range	AC: 180 - 264 Vac		
Frequency	47 Hz to 63 Hz		
Efficiency	94.0% peak, Platinum level		
Max input current	11 Arms		
Inrush current	40 Apk		
Conducted EMI	Class A		
Radiated EMI	Class A		
Power factor	> 0.98		
Leakage current	2.0 mA at 60 Hz, 240 Vac		
Hold-up time	20 ms at full load (Non LES), 35 Sec LES		
Output			
	Main DC Output		
	MIN	NOM	MAX
Nominal setting	12.00	12.25	12.50
Total output regulation range	12.0 V		12.50 V
Dynamic load regulation range	11.64 V		12.86 V
Output ripple			120 mVp-p
Output current	0.1 A[1]		131 A
Current sharing	5% From 35-75% Load, 3% From 75-100% Load		
Capacitive loading	200 µF		22,000 µF
Start-up from AC to output (default input)			3000 msec
Output rise time			100 sec

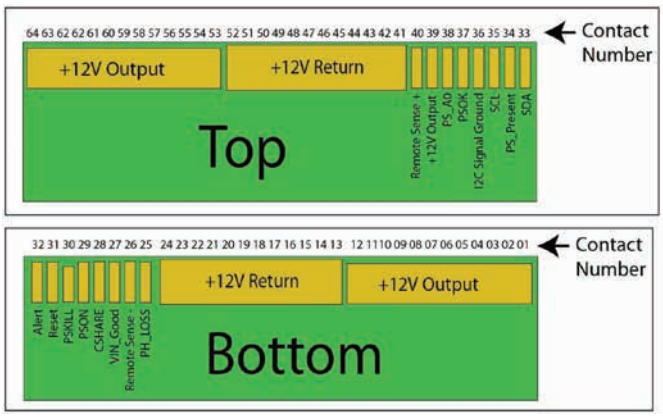
1 Minimum current transient load response testing only. Unit is designed to operate and be within output regulation range at zero load.

MECHANICAL OUTLINE

- PSU OUTLINE DIM: L300 x W86 x H80 mm



OUTPUT CONNECTOR PINOUT



ORDERING INFORMATION

Model Number	Nominal Main Output	Local Energy Storage (LES)
PL1600H	12-25 Vdc @ 131 A	LES
PS1600H	12-25 Vdc @ 131 A	Non LES

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.

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