

# POWER



## Open Compute Project

# 1600 Watt Open CloudServer Power Supply v2.0



Over  
▶ 385,000 Shipped

- 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

Reference: 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

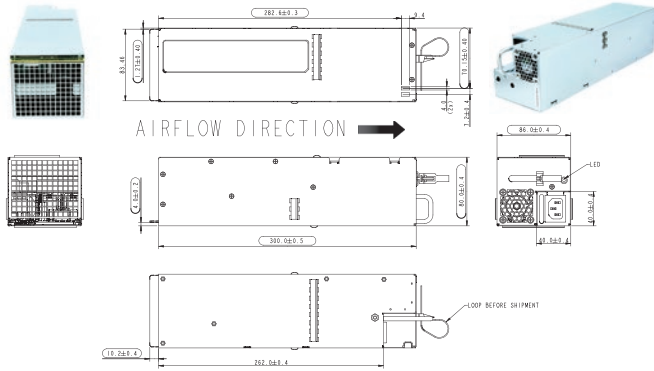
### Electrical Specifications

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 <sup>1</sup>		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

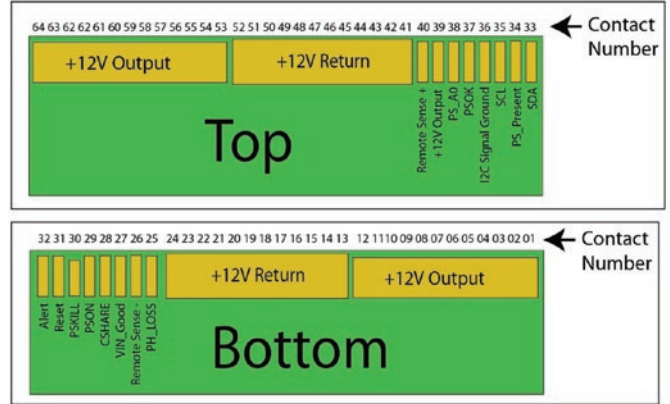
<sup>1</sup> Minimum current transient load response testing only. Unit is designed to operate and be within output regulation range at zero load.

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

WORLDWIDE OFFICES

Americas

2900 S.Diablo Way  
Tempe, AZ 85282  
USA  
+1 888 412 7832

Europe (UK)

Waterfront Business Park  
Merry Hill, Dudley  
West Midlands, DY5 1LX  
United Kingdom  
+44 (0) 1384 842 211

Asia (HK)

14/F, Lu Plaza  
2 Wing Yip Street  
Kwun Tong, Kowloon  
Hong Kong  
+852 2176 3333



www.artesyn.com

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For support: [productsupport.ep@artesyn.com](mailto:productsupport.ep@artesyn.com)