



SERVER AND NETWORKING POWER SUPPLIES

CSU Series CRPS AC-DC Distributed Power Front Ends

The CSU front end series from Artesyn is designed to provide a flexible power conversion solution for compute, storage, and networking equipment in the common redundant power supply (CRPS) form factor.

This series of AC-DC products is housed in the industry standard 1U x 73.5 mm x 185 mm CRPS form factor. Featuring individual power ratings from 550 W up to 2400 W, the choice for power supplies can cover cost-sensitive entry level systems, or power hungry applications where there are space constraints. Designed to provide the highest power in the smallest form factor, the series offers class-leading power density of 75 W/in³. The common form, fit, and function for all products in the family provides a path for power capacity flexibility, future-proofing your system designs.

CRPS

CSU SERIES

- Industry Standard CRPS Form Factor
- Market Leading Power Density
- 550 - 2400 W
- Full Digital Control
- Multiple Input Options

CSU Series CRPS AC-DC Distributed Power Front Ends

The Artesyn CSU series currently has options for using an IEC C13 or C19 AC power cord in the 2000 W range, with system designers free to choose the appropriate power capacity at 200 Vac. The CSU2400AP operates with an IEC C19 AC power cord to draw the full 2400 W at 200 Vac.

Active current sharing helps maximize cost effectiveness by eliminating the need for additional components when paralleling multiple power supplies for very high current applications. These hot-pluggable power supplies support N+1 or N+N redundant architectures, cold redundancy mode, and system power throttling.

All AC-input models in the family are certified for 80 PLUS® Platinum level efficiency, peaking at 94%, and offer low total harmonic current distortion (EN61000-3-2).

Digital control using the PMBus® protocol and a built-in I²C serial interface facilitates remote set-up, monitoring and control using Artesyn Embedded Technologies' universal PMBus graphical user interface. This programming flexibility enables users to implement sophisticated power management schemes with minimal additional components.

All models offer overcurrent, overvoltage, undervoltage, overtemperature and fan fault protection.

2 YEARS
manufacturer's
warranty

MTBF greater than
500,000
hours under normal
operating conditions

Target Applications

Server

High Performance (HPC)
Open Compute (OCP)
Cloud & Hyperscale
Rackmount Multi-purpose
Supercomputer
Multi-node
Blade Server
Appliance
Application Server

Storage

Database
Cold Storage
Hadoop
JBOD
JBOF
OCP Open Storage
Cloud Hosting
SAN
Archiving

Networking

Spine Switch
Top-of-Rack (ToR) Switch
SDN Switch
Storage Switch
Data Center Switch
Campus Network Switch
Carrier Ethernet Switch
Multiplexer
Security Appliance



CRPS

CSU SERIES

- Platinum efficiency certified
- 12.2 V main output
- 12.0 V 42 W standby output
- Up to 1400 W at low line input
- Best iTHD performance
- Up to 55 °C operating temperature

Artesyn CSU series CRPS AC-DC power supplies are all designed in the same standard short form factor to provide a scalable input power conversion solution.



IEC C20 option



IEC C14 option



550 W



CSU550AP-3

- 550 W output power
- 45 A max output current
- 2.5 A max standby output current

800 W



CSU800AP-3

- 800 W output power
- 66.7 A max output current
- 2.5 A max standby output current



Power Management.
Defined.

1300 W



CSU1300AP-3

- 1300 W output power
- 108.3 A max output current
- 3.5 A max standby output current

1800 W



CSU1800AP-3

- 1800 W output power
- 147.5 A max output current
- 3.5 A max standby output current

2000 W



CSU2000AP-3

- 2000 W output power
- 163.9 A max output current
- 3.5 A max standby output current

2400 W



CSU2400AP-3

- 2400 W output power
- 196.7 A max output current
- 3.5 A max standby output current

*Our programming
flexibility enables
users to implement
sophisticated
power management
schemes with
minimal additional
components.*

Artesyn produces an exceptionally broad range of products spanning every aspect of the computing, storage and networking market sector. These include front-end AC-DC and DC-DC power supplies, isolated brick-type DC-DC converters, and non-isolated point-of-load (POL) DC-DC converters.

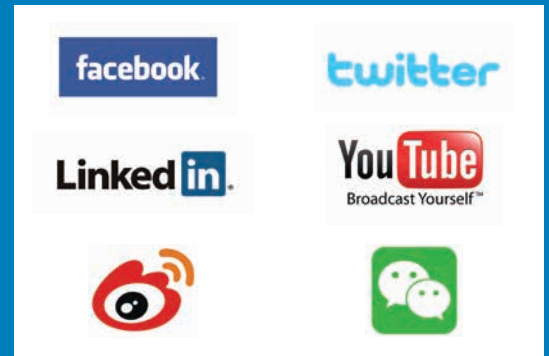
Artesyn Embedded Technologies is a global leader in the design and manufacture of highly reliable power conversion solutions for a wide range of industries including communications, computing, consumer electronics, medical, aerospace and industrial automation.

Embracing the well-known Astec brand, Artesyn's extensive AC-DC standard product portfolio covers a power range of 3 watts to 24 kilowatts and a wide selection of form factors and packaging, with many models offering medical approval and built-in intelligence.

As an industry leader in distributed power applications, Artesyn produces an exceptionally wide range of DC-DC power conversion products.

For more than 40 years, customers have trusted Artesyn to help them accelerate time-to-market, reduce risk and shift development efforts to the deployment of new, value-add features and services.

Headquartered in Tempe, Arizona, Artesyn has over 15,000 employees worldwide across multiple engineering centers of excellence, four wholly-owned world-class manufacturing facilities, and global sales and support offices.



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