



CSM11 24V to 48V Modular DC to DC Converter System

The CSM11 is a compact, modular DC-DC converter system designed for communications applications.

Switched-mode technology saves energy costs The CSM11 DC-DC converter utilizes Argus' advanced switched-mode technology to provide outstanding efficiency in a compact design: available in either a horizontal 19" or 23" cabinet configuration. The CSM11 achieves power conversion efficiencies, typically 90 percent, resulting in significant energy savings over competitive units.

Produces more reliable power in less space The CSM11 packs maximum power into minimum space, but doesn't compromise on features. Paralleling diodes are included to optimize redundancy. A fully equipped CSM11 system can accommodate up to three modules in a 19" cabinet and up to four power modules in a 23" cabinet — a total output capacity of 5000W.

Hot pluggable, front access modules Installation is easy with the CSM11's front access, slide-in modules — even while the system is on-line. Now there's never a need to power down or work on live connections while performing an upgrade to your system.

Sets the industry standard The specifications of the CSM series set the industry standard. In addition to having exceptionally low acoustic and electrical noise, the output from each unit is totally isolated from the input providing full support for applications that require separate grounding or opposite output polarity. Temperature hardened to +65°C (149°F) ambient for demanding applications.

Max. power output of 1250W per module

Accommodates three power modules per 19" system, four modules in 23"

Hot plug-in operation

Isolated input and output

Optional - extended temperature range

Comprehensive features The CSM11 incorporates a full range of standard and optional features that enable it to fulfill an extensive list of applications. Standard features include rugged two-hole input/output terminations, current limit, over voltage protection, test points, over temperature protection, output paralleling diode, low/high voltage alarm, and adjustable OVP.

Optional low temperature operation An extended temperature option assures unit start up operation in temperatures as low as -40°C (-40°F).

High quality products backed by a solid warranty In addition to being ISO 9002 registered, Argus' manufacturing center employs a rigorous quality control program to ensure all products meet the highest quality standards. Each product is designed with premium grade electronic components and is backed by a comprehensive factory parts and service warranty.



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Power Module

Electrical

Input voltage: 20 to 30 VDC

Output voltage: 44 to 52 VDC

Output current: 0 to 24A

Power: 1250W maximum

Efficiency: >88% (50 to 100% load)
90% typical

Regulation: -1% +/-0.1% load (static)
+/-0.1% line (static)
<1% deviation for 50 to 100% load step (dynamic)

Response time: <2ms to 0.1% of output for 50 to 100% load step

Noise:
Voice band: <22dB_{BrnC}
Wide band: <10mV RMS to 10MHz
<150mV_{r-p} to 100MHz

Acoustic: <60 dBA at 1m (3 ft)

Environmental

Temperature: 0° to 65°C (32° to 149°F)
(standard operating)
optional: -40° to 65°C (-40° to 149°F)
(extended operating)

Humidity: 0 to 95% R.H.
non-condensing

Elevation: -500 to 2800m
(-1640 to 9186 ft)

Features

Indicators: Power on
DC input OK
Bar graph output current
Converter fail
Current limit

Adjustments: Output voltage
Current limit

Test points: Module voltage

Protection: Input fuse
Input inrush current limiting
Output fuse
Output paralleling diode
Over temperature limiting
Input high and low voltage shutdown
Current limit/short circuit protection

Mechanical

Connections: Bullet Terminals

Weight: 4.6 kg (10 lb.)

Dimensions:
mm 127 H x 130 W x 349 D
(inches) (5" H x 5.12 W x 13.75" D)

Cabinets

Mechanical

Connections:
Input: 2-hole 1/4" studs
(per module) on 5/8" centers
Output: 2 x 3/8" threaded inserts
on 1" centers

Alarms: Terminal block
0.34mm² to 2.5mm²
(#22 to #14 AWG)

SM series serial interface (future):
RJ-45

19" Cabinet:

Weight: 8.2 kg (18 lb.)
Dimensions:
mm 132 H x 432 W x 362 D
(inches) (5.2" H x 17" W x 14.25" D)

23" Cabinet:

Weight: 9.1 kg (20 lb.)
Dimensions:
mm 132 H x 533 W x 362 D
(inches) (5.2" H x 21" W x 14.25" D)

Features

Alarms: Converter fail alarm major
Converter fail alarm minor
(Jumper selectable form A/B contacts)

Ordering Information

Please consult the factory for detailed ordering information.

Part #	Model #
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Power module

012-548-20	CSM11
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Cabinets

030-650-20	19" cabinet (CSM11)
030-651-20	23" cabinet (CSM11)

Due to continuing product improvements, Argus reserves the right to change specifications without notice.

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