



CSM01



CSM01 24V to 48V Modular DC to DC Converter Systems

The CSM01 is a compact, modular DC-DC converter system designed for communications applications.

Switched-mode technology saves energy costs The CSM01 DC-DC converter utilizes Argus' advanced switched-mode technology to provide outstanding efficiency in a compact design. Available in either a horizontal or vertical cabinet configuration, the CSM01 achieves power conversion efficiencies greater than 85 percent at full load, resulting in significant energy savings over competitive units.

Produces more power in less space The CSM01 packs maximum power into minimum space, but doesn't compromise on features. A fully equipped CSM01 system can accommodate up to six power modules — a total output capacity of 1.6 kW — as well as a supervisory control module, distribution module and input module.

Hot pluggable, front access modules Installation is easy with the CSM01's front access, slide-in modules — even while the system's on-line. Now there's never a need to power down or lose a load 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 polarity reversal.

Available in 10, 15, 25 and 30A system capacities

Accommodates up to six, 5A power modules per system

Offers hot plug-in operation

Isolated input and output

Optional extended temperature range

Optional supervisory control module

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

Comprehensive features The CSM01 incorporates a full range of standard and optional features that enable it to fulfill an extensive list of applications. Standard features include input/output terminations, current limit, over voltage protection, test points and over temperature protection. Options include low/high voltage alarm, adjustable OVP, distribution fuses, input breaker, on board microprocessor for remote monitoring, and a serial communications interface.

High quality products backed by a solid warranty In addition to being ISO 9000 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	
<p>Electrical</p> <p>Input voltage: 20 to 30 VDC</p> <p>Output voltage: 44 to 52 VDC</p> <p>Output current: 5A</p> <p>Efficiency: >85% (100% load)</p> <p>Regulation: -1%, +/-0.1% load (static) +/-0.1% line (static) <2% deviation for 50 to 100% load step (dynamic)</p> <p>Response time: 2ms to 0.1% of output for 50 to 100% load step</p> <p>Noise: Voice band: <22dBnC Wide band: <10mV RMS (10kHz to 10MHz) <150mV pk to pk (10kHz to 100MHz)</p> <p>Acoustic: 45 dBa at 1m (3 ft)</p> <hr/> <p>Environmental</p> <p>Temperature 0° to 50°C (32° to 122°F) with specified ventilation -40° to 50°C (-40° to 122°F) (optional)</p> <p>Humidity: 0 to 95% R.H. non-condensing</p> <p>Elevation: -500 to 2800m (-1640 to 9186 ft)</p> <hr/> <p>Features</p> <p>Indicators: Power on Output over voltage protection trip Bar graph output current Converter fail Current limit</p> <p>Alarms: Converter fail alarm †</p>	<p>Adjustments: Output voltage</p> <p>Protection: Input fuse Input inrush current limiting Over temperature limiting Input high and low voltage shutdown Output paralleling diode Current limit/short circuit protection</p>
Input Module 25 and 30A versions	
<p>Features</p> <p>Indicators: Circuit breaker trip</p> <p>Alarms: Circuit breaker trip alarm †</p>	
Distribution Fuse Module 10, 25 and 30A versions	
<p>Features</p> <p>Indicators: Output fuse fail</p> <p>Alarms: Output fuse alarm †</p> <p>Fuse block: 8 position 0 to 10A GMT fuses (25 and 30A versions) 4 position 0 to 10A GMT fuses (10A version)</p> <p>Connections: Terminal block 0.75mm² to 4mm² (#18 to #12 AWG)</p>	
Analog Supervisory Module 25 and 30A versions	
<p>Features</p> <p>Indicators: Major alarm System over voltage protection trip System high voltage alarm System low voltage alarm Test mode Digital voltmeter/ammeter</p>	
Alarms	
<p>Alarms: Major alarm † Low voltage alarm † High voltage alarm †</p> <p>Adjustments: Over voltage protection High voltage alarm Low voltage alarm Test/normal selector</p> <p>† Jumper selectable form A/B contacts</p>	
Cabinets	
<p>Mechanical</p> <p>Connections: Input/output: Two 1/4" studs on 5/8" centers Alarm/control: Terminal block 0.55mm² to 1.5mm² (#20 to #16 AWG)</p> <p>10A: Weight: 8.4 kg (18.5 lb.) e/w 2 power modules Dimensions: 90 H x 432 W x 305 D mm (inches) (3.5" H x 17" W x 12" D)</p> <p>15A: Weight: 10.9 kg (24 lb.) e/w 3 power modules Dimensions: 90 H x 508 W x 305 D mm (inches) (3.5" H x 20" W x 12" D)</p> <p>25A: Weight: 16.3 kg (36 lb.) e/w 5 power modules Dimensions: 178 H x 432 W x 305 D mm (inches) (7" H x 17" W x 12" D)</p> <p>30A: Weight: 19.5 kg (43 lb.) e/w 6 power modules Dimensions: 178 H x 508 W x 305 D mm (inches) (7" H x 20" W x 12" D)</p>	

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

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ISO 9000 registered

