

Power

CSM01

Modular DC to DC Converter



- 24VDC to 48VDC, 5A output
- 4RU vertical mount — 5 modules in 19", 6 modules in 23"
- 2RU horizontal mount — 2 modules in 19", 3 modules in 23"
- Scalable hot plug-in operation
- Convection cooled

The CSM01 is a compact, modular DC to DC converter system designed for communications applications. Using switched-mode technology, the CSM01 provides outstanding efficiency in a compact design.

The CSM01 achieves power conversion efficiencies greater than 85 percent at full load, resulting in significant energy saving over competitive units. The CSM01 packs maximum power into minimum space, but doesn't compromise on features. A fully equipped vertical mount CSM01 system can accommodate up to six modules — a total output capacity of 30A — as well as a supervisory module, distribution module and input module. Horizontal mount provides up to 15A capacity.

Argus' CSM modular DC to DC converter systems incorporate a full range of standard and optional features to meet the needs of a range of applications.

CSM01 Modular DC to DC Converter

Power Module(s)

Electrical

Input voltage:	20 to 30VDC
Output voltage:	44 to 52VDC
Output current:	5A
Power:	260W continuous
Efficiency:	>85% (100% load)
Regulation:	-1% ±0.1% load (static) ±0.1% line (static) <2% 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:	<22dBrnC
Wide band:	<10mV RMS to 10MHz <150mVp-p to 100MHz

Psophometric:

Acoustic: <45dBa @ 1m (3ft)

Mechanical

mm:	178H x 70W x 254D
inches:	1H x 2.75W x 10D

Features

Indicators:	Power on Output over voltage protection trip Bar graph output current Converter fail
Adjustments:	Output voltage Current limit
Test points:	Module voltage
Protection:	Input fuse Input inrush current limiting Output paralleling diode Over temperature limiting Input high and low voltage shutdown Current limit/short circuit protection

Environmental

Temperature:	0 to 50°C (32 to 122°F) (operating) -40 to 70°C (-40 to 158°F) (storage)
Humidity:	0 to 90% RH non-condensing
Elevation:	-500 to 2800m (-1640 to 9186ft)

Shelves

Mechanical

19" shelf, 2RU	
Weight:	8.4kg (18.5lb) e/w 2 power modules
Dimensions	
mm:	90H x 432W x 305D
inches:	3.5H x 17W x 12D

23" shelf, 2RU

Weight:	10.9kg (24lb) e/w 3 power modules
Dimensions	
mm:	90H x 508W x 305D
inches:	3.5H x 20W x 12D

19" shelf, 4RU

Weight:	16.3kg (36lb) e/w 5 power modules
Dimensions	
mm:	178H x 432W x 305D
inches:	7H x 17W x 12D

23" shelf, 4RU

Weight:	19.5kg (43lb) e/w 6 power modules
Dimensions	
mm:	178H x 508W x 305D
inches:	7H x 20W x 12D

Connections

Input:	2-hole ¼" studs on ⅝" centers
Output:	2-hole ¼" studs on ⅝" centers
Alarms:	Terminal block 0.55 to 1.5mm ² (20 to 16AWG)

Features

Alarms:	Major alarm Low voltage alarm
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(Jumper selectable from A/B contacts)

Shelf Components

Distribution Module Features

Indicators:	Fuse fail
Alarm:	Output fuse alarm
Fuse block:	8 position 0 GMT fuse block (25 and 30A versions) 4 positions GMT fuse block (10A version)
Connections:	Terminal block 0.75 to 4mm ² (18 to 12AWG)

Supervisory Module Features

Indicators:	Major alarm System over voltage protection trip System high voltage alarm System low voltage Test mode Digital voltmeter/ammeter
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Standards

EN:	55022 - Class A (Radiated)
FCC:	Part 15 Class A (Radiated)

For more information visit www.argusdcpower.com