

Power

CSM11

Modular DC to DC Converter



- 24 to 48VDC, 24A output
- 3RU high-density module
- Up to three modules per 19" or four modules per 23" shelves
- Scaleable hot plug-in operation
- Bar graph output current indicator

The CSM11 is a compact, modular DC to DC converter system designed for communications applications. Using switched mode technology, the CSM11 provides outstanding efficiency in a compact design.

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 will include up to three modules in a 19" shelf and up to four power modules in a 23" shelf — a total output capacity of 5000W per 23" shelf.

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

CSM11 Modular DC to DC Converter

Power Module(s)

Electrical

Input voltage:	20 to 30VDC
Output voltage:	44 to 52VDC
Output current:	24A maximum
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:	<22dBrnC
Wide band:	<10mV RMS to 10MHz <150mVp-p to 100MHz
Psophometric:	<0.5mV
Acoustic:	<60dBa @ 1m (3ft)

Mechanical

Connections:	Bullet terminals
Weight:	4.6kg (10lb)
Dimensions	
mm:	127H x 130W x 349D
inches:	5H x 5.12W x 13.75D

Features

Indicators:	Power on DC input OK Bar graph output current Converter fail alarm major Converter fail alarm minor 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

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% RH non-condensing
Elevation:	-500 to 2800m (-1640 to 9186ft)

Shelves

Mechanical

19" shelf (3 modules)	
Weight:	8.2kg (18lb)
Dimensions	
mm:	132H x 432W x 362D
inches:	5.2H x 17W x 14.25D

23" shelf (4 modules)	
Weight:	9.1kg (20lb)
Dimensions	
mm:	132H x 533W x 362D
inches:	5.2H x 21W x 14.25D

Connections

Input:	2-hole ¼" studs on ½" centers (per module)
Output:	2 x ⅝" threaded inserts on 1" centers
Alarms:	Terminal block 0.34 to 2.5mm ² (22 to 14AWG)

Features

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

CSA:	C22.2 950-95 (NRTL/C)
UL:	1950 (NTRL)
CE:	IEC/EN 60950
FCC:	47 CFR part 15 Class A radiated EMI Class B conducted EMI
EN:	55022 (CISPR 22) Class A radiated EMI Class B conducted EMI
ENV:	61000-4-2, -3, -4, -6 60950 (CE)
Bellcore:	50204 GR-63-CORE Vibration and Shock
NEBS:	Certified for 19" shelf configuration



23" CSM11 Shelf