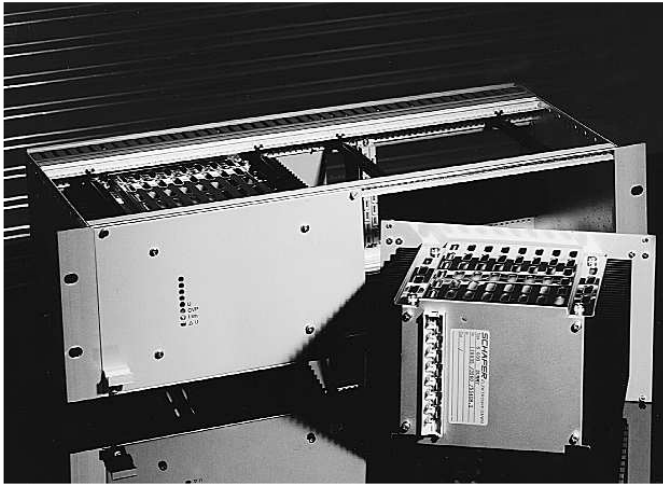


Rack & Cabinet Mount Switchers

50-22 kWatts C Series



THE **XP**ERTS IN POWER

- CE Marked LVD & EMC
- One to Four Outputs
- 5-400 Volts Output
- Eurocassette or Wall Mount
- Parallel Redundant Operation
- Fully Wired Customised Racks
- Power Factor Correction Modules

Specification

Input

DC Input Voltage	• See Table
Input Voltage	• See Table
Input Frequency	• 47-440 Hz
No-Load	• 3% of full load current typical
Input Current	
Inrush Current	• AC/DC limited by thermistor DC/DC dependson impedance of supply line, see list of options for option 'I'

Output

DC Output Voltages	• See Table
Switch-On Time	• 100 ms typical C/M200-C4700, 500ms typical C5600-C5800
Hold-Up Time	• AC/DC Increases with input voltage 15 ms typical at 230 VAC DC/DC depends on input voltage (typ. 2 ms at 12 VDC)
Line Regulation	• 0.1% ($\pm 10\%$ change Vin)
Load Regulation	• 0.2% (10-90% load)
Ripple & Noise	• $\leq 1\%$ +30 mV p-p (0.5% typical lin. regulator auxiliary)
Load Transient (20-100-20%)	• 6% typical
Response Time to $\pm 1\%$	• 2 ms typical C/M2000-C4700, 10 ms typical C5600-C5800
Overload Protection	• Current limited at 105-110% of full load
Overvoltage Protection	• Standard on single output models & main output on multi output units
Remote Sensing	• Standard for main output
Temperature Coefficient	• 0.02%/°C typical

General

Remote Sensing	• Standard for main output
Switching Frequency	• Approx. 33 KHz
Efficiency at Full Load	• 60-95%, depending on model
MTBF	• AC/DC approx. 250,000 hrs at +25°C DC/DC approx 100,000 hrs at 40 °C
Connector	• H 15 DIN 41612 or studs for higher current outputs C/M200/C4700, studs only for C5600-C5800

Environmental

Temperature Coefficient	• 0.02%/°C typical
Operating Temperature	• -20°C to +75°C, derate from +55°C at 2.5%/°C (Optional -40 °C to +75 °C)
Storage Temperature	• -40 °C to +85 °C
Relative Humidity	• 5-95% non-condensing

EMC & Safety

Isolation	• Acc. to EN60950 Class 1
RFI-Interference	• Acc. to VDE 0878, EN 55022, Level A
Construction (Safety)	• Acc. to EN60950 Class 1
Creepage Distance	• Acc. to VDE 0110, 4 mm
Air Distance	• Acc. to VDE 0110, 3 mm
Earth Leakage	• <3.5 mA at 230 VAC, to EN60950
High-Energy Pulses/Surges	• ENV 50142 (Level 3)
Spike/Bursts	• Acc. to IEC 1000-4-4 (Level 3)

For Full Module Data - See AC-DC & DC-DC Series Datasheets at www.xpplc.com

C

[illegible]

1. Standard for mains input model to series C3700.
 • Option is available in combination with other options.
 * Option is available with certain restrictions, contact technical sales for details.

C

This logic signal is a combination of power fail and DC-OK as specified for VME systems.

Input & Output Voltages

AC Input Voltages	DC Input Voltages	DC Output Voltages
115 VAC (93-138 V) 230 VAC (185-264 V) 3 x 400 VAC (320-460 V) 3 x 480 VAC (400-530 V)	10-16 VDC 18-36 VDC 36-75 VDC 45-90 VDC 80-160 VDC 160-320 VDC 320-640 VDC 450-900 VDC	4.5-5.5 VDC 8-10 VDC 11-13 VDC 14-16 VDC 23-26 VDC 26-30 VDC 45-55 VDC 58-68 VDC 100-130 VDC 190-200 VDC

STANDARD MODULES - OUTPUT POWERS & DIMENSIONS

C

Series	Single Output Maximum Power	Multi Output Maximum Power	Dimensions		
			Width	Depth	Height
200	50 W	40 W	10 TE	160 mm	3U
300	150 W	80 W	14 TE		
500	250 W	180 W	21 TE		
600	350 W	300 W	42 TE		
	500 W	450 W	42 TE	220 mm	3U
	400 W	-	21 TE		
2500	800 W	700 W	42 TE		
2600	200 W	160 W	10 TE	160 mm	6U
1200	400 W	320 W	14 TE		
1300	600 W	-	21 TE		
1500	1200 W	-	42 TE		
1600	850 W	-	21 TE	220 mm	6U
3500	1250 W	-	28 TE		
3700	1700 W	-	42 TE		
3600	2500 W	-	56 TE		
3800	2500 W	-	28 TE	300 mm	6U
4700	6000 W	-	19"	360/460 mm	6/9U
5600	8000 W	-	19"		
5700	12000 W	-	19"		
5800	22000 W	-	19"	600 mm	8 U

Wall Mounting Options

Angles

Option	Series	Width	Height	Depth
W1	300	140 mm	220 mm	180 mm
	500			
W1a	1300 ⁽¹⁾	140 mm	300 mm	260 mm
	1500 ⁽¹⁾			
	3500 ⁽¹⁾			
	3700 ⁽¹⁾			
W1b	1200	140 mm	360 mm	260 mm
	1300			
	1500			
	3500			
W1c	4700	140 mm	360 mm	340 mm

Plates

Option	Series	Width	Height	Depth
W2	600	220 mm	220 mm	-
	2600			
W3	3600	220 mm	360 mm	-
W4	3800	280 mm	360 mm	-
	4800			

Plates

Option	Series	Width	Height	Depth
W5a	5000	500 mm	400 mm	-
W5b		500 mm	600 mm	-
W5c		500 mm	800 mm	-

NOTES

1. No space available for connector underneath module.
2. The size of the module plate depends on model size and output power, and on any additional equipment to be included - Contact Technical Sales.

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C Series Versatility

With over 3000 standard modules and many more modified and custom built units available, the C Series of AC-DC and DC-DC Converters can be used in a wide variety of applications and environments.

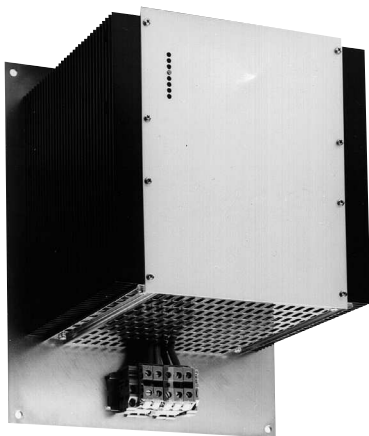
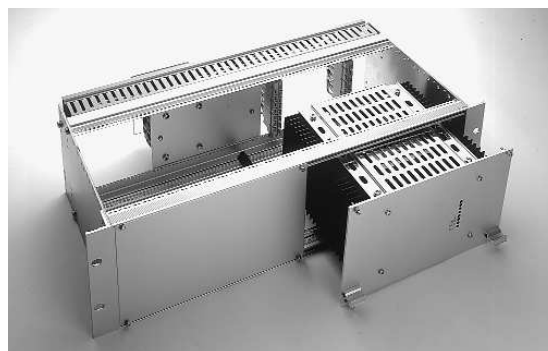


Standard Modules

Standard modules are supplied in either Euro-Cassette or 19" rack mount formats depending on power rating.

Sub-Racks

Fully wired sub-racks can be configured as 3U, 6U or 9U allowing any mix of units - including 'hot swap redundant systems complete with alarms, monitoring and controls.



Wall Plates

For customers looking to install units in their own cabinets the C Series can be supplied to a wall plate (W option). Units come fitted to a vertical mounting plate complete with screw terminals.

Customer Specific

In addition to the 'W' option, units can be configured into complete stand-alone systems. The picture opposite shows a switchmode battery charger specifically designed for installation into a lighthouse. It has been mounted in a stainless steel cabinet to withstand a salt water environment.

