

# CM Series Modular DC-DC Converter

560 - 1.7K WATTS COMMUNICATIONS

## FEATURES

- Forced cooled
- Modular for hot swap system
- Thermally protected
- Input /output voltage & current protected
- Serial alarm & control interface
- Microprocessor controlled
- Communications with SM series supervisory module



## SPECIFICATIONS

### INPUT

Nominal voltage	24VDC (20-30V)
range	48VDC (40-60V)

### INPUT PROTECTION

Fuses	Fuse in the positive input with crowbar diode
Input voltage	Converter shuts down when input voltage is out of range, automatically restarts when correct voltage is restored

### DC OUTPUT

Nominal output voltage	See table
Output voltage range	See table
Maximum output current	See table
Maximum output power	560W to 1700W see table
Efficiency	See table

### REGULATION

Line	± 0.1%
Load	± 0.5% (no load to full load)

### PROTECTION

Current limit	Adjustable to 50-100% of maximum rated current
Over temperature	Auto current turndown, backup shutdown protection
Polarity reversal	Output fuse in positive with crowbar diode
Over voltage	Adjustable limit (under nominal conditions)

### NOISE

Ripple <100Hz	<1mV rms unweighted
Voice band 100Hz-5KHz	<1mV rms psophometric

Wide band 5kHz-1MHz	<5mV rms unweighted
Peak to peak 0-20MHz	<50mV peak to peak

### ISOLATION

Input to output	4230V DC
Input to chassis	2115V DC (VDR to chassis removed)
Output to chassis	2115V DC

### ENVIRONMENT

Ambient temperature Nominal	+25 +/- 5°C
Range	-10 to +70°C (maximum output power is derated above +50°C)
Storage temperature	-20 to +70°C
Humidity	5-95% RH (non condensing)
Altitude	<2500m, De-rate maximum ambient temperature by +4°C per 1000m above sea level

### MECHANICAL

Dimensions	W 111.5mm x H 44mm x D 282mm
Weight	1.1kg
Shipping weight	1.6kg
Cooling	Forced cooled

### COMPLIANCES

Safety	EN60950
Electrostatic discharge	CISPR24
Radiated radio frequency	CISPR22

### ADDITIONAL ACCESORIES

ACM-4T	1U 4 position DC-DC converter shelf, no cables
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## CM SERIES MODULAR CONVERTER

MODEL NUMBER	INPUT	OUTPUT / RANGE	CURRENT	EFFICIENCY	OVER VOLTS SHUTDOWN	OUTPUT POWER
CM612-24	20-30V DC	12V (11-14V)	40A	89%	16V	560W
CM648-24	20-30V DC	48V (46-52V)	13.5A	91%	55V	650W
CM1048-24	20-30V DC	48V (46-52V)	21.6A	91%	55V	1040W
CM612-48	40-60V DC	12V (11-14V)	40A	89%	16V	560W
CM624-48	40-60V DC	24V (22-26V)	25A	91%	32V	650W
CM1024-48	40-60V DC	24V (22-26V)	43A	91%	32V	1040W
CM1748-48	40-60V DC	48V (46-52V)	33A	91%	55V	1700W