

# CM SERIES 1.0kW DC-DC CONVERTERS



## DC INPUT

	CM1048-24	CM1024-48
Nominal Input Voltage:	24V DC	48V DC
Input Voltage Range:	20-30V DC	40-60V DC
Protection:	Fuses: Input Voltage:	Fuse in the positive input with crowbar diode Auto shutdown, auto restart when correct voltage restored

## DC OUTPUT

	CM1048-24	CM1024-48
Nominal Output Voltage:	48V DC	24V DC
Output Voltage Range:	46-52V DC	22-26V DC
Maximum Output Current:	21.6A	43.0A
Maximum Output Power:	1040W	1040W
Peak Efficiency:	92.0%	93.0%
Regulation:	Line: Load:	±0.1% ±0.5% (no load to full load)
Start-up Time:	Walk-in Delay:	2-8 seconds depending on load and output voltage
Protection:	Current Limit: Over Temperature: Polarity Reversal: Over Voltage:	Adjustable to 50-100% of maximum rated current Auto current turndown, backup shutdown Output fuse in positive with crowbar diode Adjustable limit
Noise:	Ripple <100Hz: Peak to Peak 0-20MHz:	<1mV rms unweighted <50mV peak to peak
Isolation:	Input to Output: Input to Chassis: Output to Chassis:	4230V DC 2115V DC (VDR to chassis removed) 2115V DC

## ENVIRONMENTAL REQUIREMENTS

Ambient Temperature:	-20°C to +70°C (maximum output power is derated above +50°C)
Storage Temperature:	-30°C to +85°C
Humidity:	5-95% RH (non condensing)
Altitude:	<2,500m at full power



## MECHANICAL

Dimensions W, H, D:	111.5mm, 44.45mm (1U), 282.0mm overall (260.0mm rack depth)
Weight:	1.1kg
Shipping Dimensions W, H, D:	170.0mm, 52.0mm, 325.0mm
Shipping Weight:	1.6kg
Cooling:	Force cooled (front to back airflow)

## COMPLIANCES

Safety:	EN60950
Immunity:	CISPR24
Emissions:	CISPR22
Other:	CE & RoHS compliant



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