CM Series Converter LV >1500W

Low Voltage DC-DC Converter Below 1500W



CM612 / CM1024 / CM1048

DC CONVERTER

DC OUT 12V / 24V / 48V MAX OUTPUT **1040W**

Key Features

- Forced-air cooled by a temperature controlled, high-reliability, monitored fan
- · Thermally protected
- Input/output voltage and current protected
- Serial alarm and control interface
- Microprocessor controlled
- Standalone or system operation



Unrivalled Performance

Efficient and reliable, these modular rack mount DC-DC converters allow for easy paralleling of modules to provide redundancy or higher power outputs. Designed for use in modern telecommunication networks and industrial applications, these converters offer unrivalled performance.

The design allows for mounting four modules in a $1U \times 19''$ rack or integrated within our COMPACT systems, Enatel's Energy Manager can be used for system level monitoring and control, or it can operate as a standalone unit. These converters can be configured in combinations to provide multiple voltage outputs, filtering and isolation.

The CM Series 'plug and play' ability allows quick and easy installation and system expansion. These robust, reliable converters are forced-air cooled and automatically return to normal operation following abnormal events.

Modules are New Zealand-made to guarantee design, manufacture and process integrity. Our robust, proven conversion topology utilises only the highest specification components – something rarely offered by others.

enatel

CM Series Converter LV <1500W Specifications



COLINPUT RATINGS: 24V 48V 48V 24V INPUT YOLTAGE RANGE: 20-30V 40-60V 40-60V 20-30V FUSES Fuse in the positive input with crowboar diode TOUTY YOUTAGE PROTECTION: Auto shutdown, outo restart when voltage restarts. TOUTY TOUTAGE PROTECTION: Auto shutdown, outo restart when voltage restarts. TOUTY TOUTAGE PROTECTION: Auto shutdown, outo restart when voltage restarts. TOUTAGE PROTECTION: 46V 46	ELECTRICAL		CM612-24	CM612-48	CM1024-48	CM1048-24	
NPUT VOLTAGE RANGE 20-30V 40-60V 40-60V 20-30V	DC INPUT RATING	s					
FuseS	NOMINAL VOLTAGE:		24V	48V	48V	24V	
NOPUT VOLTAGE PROTECTION:	INPUT VOLTAGE RANGE:		20-30V	40-60V	40-60V	20-30V	
DC OUTPUT RATINGS NOMINAL VOLTAGE: 12V 12V 24V 48V VOLTAGE RANGE: 10.5-15V 10.5-15V 21-30V 46-52V MAXIMUM OUTPUT CURRENT: 40.0A 40.0A 43.0A 21.6A POWER RATING: 560W 560W 10.40W 1040W PEAK EFFICIENCY: 90.32% 93.00% 93.93% 92.31% ENVIRONMENTAL REQUIREMENTS: AMBIENT TEMPERATURE: -20°C to 70°C [-4°F to 158°F] moximum output power is deroted above 50°C [122°F] STORAGE TEMPERATURE: -30°C to 85°C [-22°F to 185°F] COMPLIANCES SAFETY: EN 60950-1 IMMUNITY: CISPR24 EMISSIONS: CISPR22 Class B OTHER: CE & RoHS Compliant MECHANICAL MECHANICAL MECHANICAL MECHANICAL MECHANICAL MECHANICAL MECHANICAL MECHANICAL	FUSES		Fuse in the positive input with crowbar diode				
NOMINAL VOLTAGE: 12V 24V 48V VOLTAGE RANGE: 10.5-15V 10.5-15V 21-30V 46-52V MAXIMUM OUTPUT CURRENT: 40.0A 40.0A 43.0A 21.6A POWER RATING: 560W 560W 1040W 1040W PEAK EFFICIENCY: 90.32% 93.00% 93.93% 92.31% ENVIRONMENTAL RECURREMENTS: -30°C to 70°C [-4°F to 158°F] -30°C to 85°C [-22°F to 185°F] -30°C to 85°C [-22°F to 185°F] COMPLIANCES SAFETY: EN 60950-1 -30°C to 85°C [-22°F to 185°F] EMISSIONS: CISPR24 EMISSIONS: CISPR22 Class B OTHER: CE & ROHS Compliant MECHANICAL MIDTH: 11.5 mm [4.39 in] DIMENSIONS: MIDTH: 14.0 mm [1.73 in] (1U) DIMENSIONS: DEEP: 282.0 mm [11.1 in] overall (rack depth 260.0 mm [10.24 in])	INPUT VOLTAGE PROTECTION:		Auto shutdown, auto restart when voltage restored				
VOLTAGE RANGE: 10.5-15V 21-30V 46-52V MAXIMUM OUTPUT CURRENT: 40.0A 40.0A 43.0A 21.6A POWER RATING: 560W 560W 1040W 1040W PEAK EFFICIENCY: 90.32% 93.00% 93.93% 92.31% ENVIRONMENTAL REQUIREMENTS AMBIENT TEMPERATURE: -20°C to 70°C [-4°F to 158°F] maximum output power is derated above 50°C [122°F] STORAGE TEMPERATURE: -30°C to 85°C [-22°F to 185°F] COMPLIANCES SAFETY: EN 60950-1 IMMUNITY: CISPR24 EMISSIONS: CISPR22 Class B OTHER: CE & ROHS Compliant MECHANICAL MECHANICAL MIDTH: 111.5 mm [4.39 in] DIMENSIONS: HEIGHT: 44.0 mm [1.73 in] (IU) DEEP: 282.0 mm [11.1 in] overall (rack depth 260.0 mm [10.24 in])	DC OUTPUT RATIN	igs					
MAXIMUM OUTPUT CURRENT: 40.0A 40.0A 43.0A 21.6A POWER RATING: 560W 560W 10.40W 10.40W PEAK EFFICIENCY: 90.32% 93.00% 93.93% 92.31% ENVIRONMENTAL REQUIREMENTS AMBIENT TEMPERATURE: -20°C to 70°C [-4°F to 158°F] maximum output power is derated above 50°C [122°F] STORAGE TEMPERATURE: -30°C to 85°C [-22°F to 185°F] COMPLIANCES SAFETY: EN 60950-1 IMMUNITY: CISPR24 EMISSIONS: CISPR22 Class B OTHER: CE & RoHS Compliant MECHANICAL MIDTH: 111.5 mm [4.39 in] DIMENSIONS: HEIGHT: 44.0 mm [1.73 in] (1U) DEEP: 282.0 mm [11.1 in] overall (rack depth 260.0 mm [10.24 in]) WEIGHT: 1.50kg [3.31 lb]	NOMINAL VOLTAGE:		12V	12V	24V	48V	
POWER RATING: 560W 560W 1040W 1040W PEAK EFFICIENCY: 90.32% 93.00% 93.93% 92.31% ENVIRONMENTAL REVUIREMENTS AMBIENT TEMPERATURE: -20°C to 70°C [-4°F to 158°F] maximum output power is derated above 50°C [122°F] STORAGE TEMPERATURE: -30°C to 85°C [-22°F to 185°F] COMPLIANCES SAFETY: EN 60950-1 IMMUNITY: CISPR24 EMISSIONS: CISPR22 Class B OTHER: CE & RoHS Compliant MECHANICAL MIDTH: 111.5 mm [4.39 in] DIMENSIONS: HEIGHT: 44.0 mm [1.73 in] (1U) DEEP: 282.0 mm [11.1 in] overall (rack depth 260.0 mm [10.24 in])	VOLTAGE RANGE:		10.5-15V	10.5-15V	21-30V	46-52V	
PEAK EFFICIENCY: 90.32% 93.00% 93.93% 92.31% ENVIRONMENTAL REQUIREMENTS: -20°C to 70°C [-4°F to 158°F] AMBIENT TEMPERATURE: -30°C to 85°C [-22°F to 185°F] STORAGE TEMPERATURE: -30°C to 85°C [-22°F to 185°F] COMPLIANCES SAFETY: EN 60950-1 IMMUNITY: CISPR24 EMISSIONS: CISPR22 Class B OTHER: CE & RoHS Compliant MECHANICAL MECHANICAL MIDTH: 111.5 mm [4.39 in] MEIGHT: 44.0 mm [1.73 in] (1U) DIMENSIONS: MEIGHT: 44.0 mm [1.73 in] (1U) DEEP: 282.0 mm [11.1 in] overall (rack depth 260.0 mm [10.24 in]) WEIGHT: 1.50kg [3.31 lb]	MAXIMUM OUTPUT CURRENT:		40.0A	40.0A	43.0A	21.6A	
ENVIRONMENTAL REVORTER AMBIENT TEMPERATURE: -20°C to 70°C [-4°F to 158°F] maximum output power is derated above 50°C [122°F] STORAGE TEMPERATURE: -30°C to 85°C [-22°F to 185°F] COMPLIANCES SAFETY: EN 60950-1 IMMUNITY: CISPR24 EMISSIONS: CISPR22 Class B OTHER: CE & RoHS Compliant MECHANICAL CE & RoHS Compliant DIMENSIONS: MIDTH: 111.5 mm [4.39 in] DIMENSIONS: HEIGHT: 44.0 mm [1.73 in] (1U) DEEP: 282.0 mm [11.1 in] overall (rack depth 260.0 mm [10.24 in]) WEIGHT: 1.50kg [3.31 lb]	POWER RATING:		560W	560W	1040W	1040W	
AMBIENT TEMPERATURE: -20°C to 70°C [-4°F to 158°F] maximum output power is derated above 50°C [122°F] STORAGE TEMPERATURE: -30°C to 85°C [-22°F to 185°F] COMPLIANCES SAFETY: EN 60950-1 IMMUNITY: CISPR24 EMISSIONS: CISPR22 Class B OTHER: CE & ROHS Compliant MECHANICAL MIDTH: 111.5 mm [4.39 in] DIMENSIONS: MIDTH: 111.5 mm [4.39 in] (1U) DIMENSIONS: HEIGHT: 44.0 mm [1.73 in] (1U) DEEP: 282.0 mm [11.1 in] overall (rack depth 260.0 mm [10.24 in]) WEIGHT: 1.50kg [3.31 lb]	PEAK EFFICIENCY:		90.32%	93.00%	93.93%	92.31%	
### STORAGE TEMPERATURE: -30°C to 85°C [-22°F to 185°F] COMPLIANCES	ENVIRONMENTAL	REQUIREMENTS					
COMPLIANCES SAFETY: EN 60950-1 IMMUNITY: CISPR24 EMISSIONS: CISPR22 Class B OTHER: CE & ROHS Compliant MECHANICAL MIDTH: 111.5 mm [4.39 in] DIMENSIONS: HEIGHT: 44.0 mm [1.73 in] (1U) DEEP: 282.0 mm [11.1 in] overall (rack depth 260.0 mm [10.24 in]) WEIGHT: 1.50kg [3.31 lb]	AMBIENT TEMPERATURE:						
SAFETY: EN 60950-1 IMMUNITY: CISPR24 EMISSIONS: CISPR22 Class B OTHER: CE & ROHS Compliant MECHANICAL MECHANICAL DIMENSIONS: WIDTH: 111.5 mm [4.39 in] HEIGHT: 44.0 mm [1.73 in] (IU) DEEP: 282.0 mm [11.1 in] overall (rack depth 260.0 mm [10.24 in]) WEIGHT: 1.50kg [3.31 lb]	STORAGE TEMPERATURE:		-30°C to 85°C [-22°F to 185°F]				
IMMUNITY: CISPR24 EMISSIONS: CISPR22 Class B OTHER: CE & ROHS Compliant MECHANICAL MIDTH: 111.5 mm [4.39 in] DIMENSIONS: HEIGHT: 44.0 mm [1.73 in] (1U) DEEP: 282.0 mm [11.1 in] overall (rack depth 260.0 mm [10.24 in]) WEIGHT: 1.50kg [3.31 lb]	COMPLIANCES						
EMISSIONS: CISPR22 Class B OTHER: CE & RoHS Compliant MECHANICAL MIDTH: 111.5 mm [4.39 in] DIMENSIONS: HEIGHT: 44.0 mm [1.73 in] (1U) DEEP: 282.0 mm [11.1 in] overall (rack depth 260.0 mm [10.24 in]) WEIGHT: 1.50kg [3.31 lb]	SAFETY:		EN 60950-1				
OTHER: CE & RoHS Compliant MECHANICAL WIDTH: 111.5 mm [4.39 in] DIMENSIONS: HEIGHT: 44.0 mm [1.73 in] (1U) DEEP: 282.0 mm [11.1 in] overall (rack depth 260.0 mm [10.24 in]) WEIGHT: 1.50kg [3.31 lb]	IMMUNITY:		CISPR24				
MECHANICAL MIDTH: 111.5 mm [4.39 in] DIMENSIONS: HEIGHT: 44.0 mm [1.73 in] (1U) DEEP: 282.0 mm [11.1 in] overall (rack depth 260.0 mm [10.24 in]) WEIGHT: 1.50kg [3.31 lb]	EMISSIONS:		CISPR22 Class B				
DIMENSIONS: WIDTH: 111.5 mm [4.39 in] HEIGHT: 44.0 mm [1.73 in] (1U) DEEP: 282.0 mm [11.1 in] overall (rack depth 260.0 mm [10.24 in]) WEIGHT: 1.50kg [3.31 lb]	OTHER:		CE & RoHS Compliant				
DIMENSIONS: HEIGHT: 44.0 mm [1.73 in] (1U) DEEP: 282.0 mm [11.1 in] overall (rack depth 260.0 mm [10.24 in]) WEIGHT: 1.50kg [3.31 lb]	MECHANICAL						
DEEP: 282.0 mm [11.1 in] overall (rack depth 260.0 mm [10.24 in]) WEIGHT: 1.50kg [3.31 lb]	DIMENSIONS:	WIDTH:	111.5 mm [4.39 in]				
WEIGHT: 1.50kg [3.31 lb]		HEIGHT:	44.0 mm [1.73 in] (1U)				
-		DEEP:	282.0 mm [11.1 in] overall (rack depth 260.0 mm [10.24 in])				
COOLING: Forced-air cooled (front to back airflow)	WEIGHT:		1.50kg [3.31 lb]				
	COOLING:	COOLING:		Forced-air cooled (front to back airflow)			

Due to product development, specifications are subject to change without prior notice. Pictures may be representative: actual products may differ.