



# Cambia C3MK Power System

Telecom

Network

Broadband

Utilities



DC Power Shelf with Controller & 3 Rectifiers

## Product Features

- Hot pluggable
- n + 1 redundancy
- Controlled, measured and reported by RS232, TCP/IP
- Modular design for accommodating high power applications
- 19 & 23 inch rack mount type
- Optional expansion shelf for higher output power

Input Specifications	
<b>Voltage</b>	1Ø3W 240VAC (Nominal 176 - 275VAC) 3Ø4W 380VAC
<b>Frequency</b>	45 - 66Hz
<b>Protection</b>	Under & Over voltage
<b>Efficiency</b>	96.0% Max (3kW module) 96.0% Typical (2kW module)

Output Specifications	
<b>Output voltage</b>	Default -54VDC
<b>Output current</b>	166.5A Max (3kW 3 modules)
<b>Adjustment range</b>	-42 – 58VDC
<b>Line regulation</b>	±0.5% Max
<b>Load regulation</b>	±1.0% Max
<b>Temp. regulation</b>	±0.5% Max
<b>Noise</b>	≤ 250mVp-p (2kW 3 modules) ≤ 300mVp-p (3kW 3 modules)
<b>Setpoint accuracy</b>	±0.5%
<b>Over current</b>	101 – 110%
<b>Protection</b>	-59VDC over (recycle input to reset), Thermal Shutdown

## Product Description

The Cambia C3MK is a 19" modular, configurable high efficiency 1U 48VDC power system with up to three 96% efficient rectifiers (maximum 167A). With the addition of the Cambia 4MK, the system has the flexibility to be configured up to 3,500A. The system can be equipped with individual or single AC feeds. These systems have been used by solar integrators to support high powered off-grid applications. There are also a wide range of applications including central office, headend, backhaul, DAS and wireless base stations

General Specifications	
<b>Operating temperature</b>	-40 – 75°C (Derating above 3kW: +45°C / 1&2kW: +55°C)
<b>Storage temp.</b>	-40 – 80°C
<b>Humidity</b>	Operating: 10 – 95% (Non-Condensing) Storage: 5 – 95% (Non-Condensing)
<b>Cooling</b>	Fan cooling
<b>Altitude</b>	2,000m (6,566ft)
<b>Size (WxDxH)</b>	465 mm (19") or 567.4 mm (23") x 417 x 44.4 mm
<b>UL/cUL</b>	60950-1 (pending)
<b>Communication interface</b>	RS232, Ethernet, Dry Contacts (In/output 8 ports each)

Electromagnetic Compatibility (pending)	
<b>Emissions</b>	EN55022 Class A
<b>Harmonic current emissions</b>	EN61000-3-2
<b>Fluctuations &amp; flicker</b>	EN61000-3-3
<b>Electrostatic discharge</b>	EN61000-4-2
<b>Radiated EFI</b>	EN61000-4-3
<b>EFT / bursts</b>	EN61000-4-4
<b>Surge transients</b>	EN61000-4-5
<b>Conducted immunity</b>	EN61000-4-6
<b>Voltage dips &amp; short interrupts</b>	EN61000-4-11

## Ordering Information

Model No.	Description
Cambia C3MK	Modular 1U Shelf with Controller

## Cambia 4MK Expansion Shelf



Expansion Shelf with (4) Rectifiers

### Product Description

The Cambia 4MK is a 19" modular 1U expansion shelf for the C3MK. It can be configured with up to four 96% efficient rectifiers (maximum 223A). With the addition of the Cambia C3MK, the system has the flexibility to be configured up to 3,500A.

#### Input Specifications

<b>Voltage</b>	1P3W 240VAC (Nominal 176 - 275 VAC) 3Ø 4W 380VAC
<b>Frequency</b>	45 - 66 Hz
<b>Protection</b>	Under & Over voltage
<b>Efficiency</b>	96.0% Max (3KW module) 96.0% Typical (2KW module)

#### Output Specifications

<b>Output Voltage</b>	DEFAULT -54 VDC
<b>Output Current</b>	222A Max (3kW 4 modules)
<b>Adj. Range</b>	-42 – 58 VDC
<b>Line Regulation</b>	±0.5% Max
<b>Load Reg.</b>	±1.0% Max
<b>Temp. Reg.</b>	±0.5% Max
<b>Noise</b>	≤250mVp-p (2kW 3 modules) ≤300mVp-p (3KW 3 modules)
<b>Setpoint Acc.</b>	±0.5%
<b>Over Current</b>	101 – 110%
<b>Protection</b>	-59 VDC over (recycle input to reset), Thermal Shutdown

#### General Specifications

<b>Operating Temperature</b>	-40 – 75°C (Derating above 3kW: +45°C / 2kW: +55°C)
<b>Storage Temp.</b>	-40 – 80°C
<b>Humidity</b>	Operating: 10 – 95% (Non-Condensing) Storage: 5 – 95% (Non-Condensing)
<b>Cooling</b>	Fan cooling
<b>Altitude</b>	2000 m (6566 ft)
<b>Size (WxDxH)</b>	465 mm (19") or 567.4 mm (23") x 417 x 44.4 mm
<b>UL/cUL</b>	60950-1 (pending)

#### Electromagnetic Compatibility (pending)

<b>Emissions</b>	EN55022 Class A
<b>Harmonic Current Emissions</b>	EN61000-3-2
<b>Fluctuations &amp; Flicker</b>	EN61000-3-3
<b>Electrostatic-Discharge</b>	EN61000-4-2
<b>Radiated EFI</b>	EN61000-4-3
<b>EFT/Bursts</b>	EN61000-4-4
<b>Surge Transients</b>	EN61000-4-5
<b>Conducted Immunity</b>	EN61000-4-6
<b>Voltage Dips &amp; Short Interrupts</b>	EN61000-4-11

### Ordering Information

Model No.	Description
Cambia 4MK	Modular 1U Shelf with 4 Rectifiers