



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

Output Specifications	
Output voltage	Default -54VDC
Output current	166.5A Max (3kW 3 modules)
Adjustment range	-42 – 58VDC
Line regulation	±0.5% Max
Load regulation	±1.0% Max
Temp. regulation	±0.5% Max
Noise	≤ 250mVp-p (2kW 3 modules) ≤ 300mVp-p (3kW 3 modules)
Setpoint accuracy	±0.5%
Over current	101 – 110%
Protection	-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	
Operating temperature	-40 – 75°C (Derating above 3kW: +45°C / 1&2kW: +55°C)
Storage temp.	-40 – 80°C
Humidity	Operating: 10 – 95% (Non-Condensing) Storage: 5 – 95% (Non-Condensing)
Cooling	Fan cooling
Altitude	2,000m (6,566ft)
Size (WxDxH)	465 mm (19") or 567.4 mm (23") x 417 x 44.4 mm
UL/cUL	60950-1 (pending)
Communication interface	RS232, Ethernet, Dry Contacts (In/output 8 ports each)

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

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

Output Specifications

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

General Specifications

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

Electromagnetic Compatibility (pending)

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

Ordering Information

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