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Data Sheet

August 15, 2026

ABB / HC POWER

ABB / HC Power HC2511-C1711 2500 Watt Hi-Reliability MOSFET Switcher

The ABB/HC Power HC2511-C1711 is a 2500 Watt hi-reliability MOSFET switcher engineered for applications demanding superior efficiency and design flexibility. Operating at 0.99 power factor with current mode control, this unit delivers clean, stable power without minimum load constraints - a critical advantage in variable-demand systems. Typical Applications Hi-reliability MOSFET switchers are specified for industrial power distribution, telecom backup systems, precision instrumentation power, and distributed redundant architectures where current sharing and fault tolerance are essential. Compatibility & Integration The HC2511-C1711 integrates into systems requiring scalable power delivery and coordinated protection. Current sharing capability supports multi-unit configurations without external load-balancing circuitry. Technical documentation and manufacturer support are available thro



MODEL

**ABB / HC Power
HC2511-C1711**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

HC2511-C1711

LISTING

<https://aumictechlabs.com/products/hc2511-c1711-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The ABB/HC Power HC2511-C1711 is a 2500 Watt hi-reliability MOSFET switcher engineered for applications demanding superior efficiency and design flexibility. Operating at 0.99 power factor with current mode control, this unit delivers clean, stable power without minimum load constraints

- a critical advantage in variable-demand systems.

Technical Specifications
Manufacturer: ABB / HC Power
Model: HC2511-C1711
Product Family: HC2500 Series
Power Output: 2500 Watts
Topology: Hi-Reliability MOSFET Switcher
Power Factor: 0.99
Control Method: Current Mode Control
Shipping Weight: 30 lbs per unit

Key Features
No minimum load requirement - operates efficiently across full dynamic range
Unique two-stage current limiting protects downstream components during fault conditions
Absolute current sharing enables parallel operation with guaranteed load distribution
MOSFET-based topology provides inherent reliability and thermal performance
0.99 power factor minimizes reactive power and reduces system losses

Typical Applications
Hi-reliability MOSFET switchers are specified for industrial power distribution, telecom backup systems, precision instrumentation power, and distributed redundant architectures where current sharing and fault tolerance are essential.

Compatibility & Integration
The HC2511-C1711 integrates into systems requiring scalable power delivery and coordinated protection. Current sharing capability supports multi-unit configurations without external load-balancing circuitry. Technical documentation and manufacturer support are available through authorized distributors, including post-EOL procurement options.

HC2511C1711 Characteristics / Specifications

PARAMETER	VALUE
Model	HC2511-C1711
Instrument Type	Hi-reliability MOSFET switching power supply
Family	HC Power HC2500 series
Power Rating	2500 W
Output Count	single (C1711 configuration)
Internal Part	10A0025-036
Topology	power MOSFET switcher
Power Factor	0.99
Control Mode	current mode
Current Limit	two-stage
Current Share	absolute current sharing
Minimum Load	none required
Reliability Class	hi-reliability HC2500 series
Sibling 30	HC3011-C1221 / HC3011-C1205 3000 W single output
Sibling 20	HCT21-C1019 2000 W, 208-240 VAC input
Manufacturer	HC Power / ABB
Literature	HC Power HC2500 series 2500 W MOSFET switcher feature list and HC2511-C1711 configuration
Use	ATE, burn-in, and redundant bulk DC
Paralleling	current-share bus for N+1
Pfc	0.99 PF front end
Switching	MOSFET, not bipolar linear
Config Code	C1711 output/configuration suffix
Ship Weight Class	30 lb Artisan row
Family Name	HC2500

HC2511C1711 Specifications

PARAMETER	VALUE
Applications	High-reliability 2500 W AC-DC bulk power for ATE, burn-in, and redundant current-share racks.
Key Features	HC2500 series 2500 W MOSFET switcher
Absolute current sharing for paralleling	Single-output C1711 configuration
Technical Specifications	Model: HC2511-C1711

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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PARAMETER	VALUE
Model	HC2511-C1711
Instrument Type	Hi-reliability MOSFET switching power supply
Family	HC Power HC2500 series
Power Rating	2500 W
Output Count	single (C1711 configuration)
Internal Part	10A0025-036
Topology	power MOSFET switcher
Power Factor	0.99
Control Mode	current mode
Current Limit	two-stage
Current Share	absolute current sharing
Minimum Load	none required
Reliability Class	hi-reliability HC2500 series
Sibling 3000	HC3011-C1221 / HC3011-C1205 3000 W single output
Sibling 2000	HCT21-C1019 2000 W, 208-240 VAC input
Manufacturer	HC Power / ABB
Literature	HC Power HC2500 series 2500 W MOSFET switcher feature list and HC2511-C1711 configuration
Use	ATE, burn-in, and redundant bulk DC
Paralleling	current-share bus for N+1
Pfc	0.99 PF front end
Switching	MOSFET, not bipolar linear
Config Code	C1711 output/configuration suffix
Ship Weight Class	30 lb Artisan row
Family Name	HC2500
Notes	
From HC Power HC2500 series 2500 W MOSFET-switcher feature list and HC2511-C1711 single-output configuration	

(10A0025-036). Exact V/I of C1711 belongs on that unit nameplate.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.