



Premion T 4000
Hydrogen Fuel Cell System

The Premion T 4000 meets the growing demand for energy efficiency, cost effectiveness and service friendliness.

Designed for the needs of telecommunication operators.

Compel Electronics GmbH
Otto-Kraffke-Straße 11
D - 36179 Bebra
Tel. +49 (0) 6622 430-551
Fax +49 (0) 6622 430-561
E-mail: info@compel-coax.de
www.compel-coax.de

Product Information

Applications:

Backup Solution

Our fuel cell based Backup Solution is suitable for situations where power outages threaten consistent network coverage. The Premion T 4000 fuel cell system is designed to perfectly integrate into the system topography of telecommunication networks.

Clean Power Site

Clean Power Solutions from regenerative energy sources and fuel cell technology provide effective reduction of energy consumption and costs. The Premion T 4000 enables the use of renewable energy sources for a self-sufficient power supply.

Product Specifications:

Physical Dimensions	
Fuel Cell System	Height 17 HU, Width 19" 756 x 483 x 575 mm (H x W x D)
Installation Depth	600 mm
Weight	90 kg
Connection	
Electrical	175 A Anderson Connector
Hydrogen Supply	12 mm clamping ring

Technical Specifications:

Performance	
Rated Net Power	0.8 to 4 kW
Rated Current	up to 90 Amps @ 4 kW
Nominal Voltage	-48 VDC
Voltage Range	-44 VDC to -57 VDC
Fuel	
Gaseous Hydrogen	H 3.0 (lowest standard industrial grade 99.9%)

Backup Time (h) Standard Cylinders @ 200 bar			
No. of hydrogen bottles	1 kW	2 kW	4 kW
2 x 50 litre H2	17	9	5
4 x 50 litre H2	34	19	9
6 x 50 litre H2	51	28	14
12 x 50 litre H2	101	56	28
Operation			
Ramp-up Time	0 ms, uninterruptible		
Inlet Air Temperature	-25° to +45°C		
Relative Humidity	up to 95%		
Operating Altitude	up to 4,000 m		
Installation	Indoor and outdoor in cabinet		
Standards			
Declaration of Conformity	CE		
EMC	EN 61000-6-2 & -4		
Fuel Cell Standard	EN 62282-2		
Noise Emission	ETSI ETS 300 753 (attended telecoms room)		
Voltage Range	ETSI EN 300 132-2		
Temperature Range	ETSI EN 300 019-1-3 (class 3.2*)		
Protection Grade	EN 60529 (IP20)		
Onsite Monitoring & Control			
Display	LC Display		
Interface	Web browser via Ethernet RJ45		
Remote Monitoring & Control			
Interfaces	Ethernet 10/100 Mbit GSM/GPRS modem (optional) 8 dry contacts configurable by user 4 analogue output ports: 4-20 mA/0-5V 4 analogue input ports: 0-10V SNMP (optional)		