



P M C

Rectifiers & Testers

**CDT 423 HC-4CH**

**CHARGE/DISCHARGE  
TEST SYSTEM**

**TECHNICAL DATA  
AND ENVIRONMENTAL  
CONDITIONS**

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System Name and Serial Number	CDT 423 HC - 4CH      0001 / 03 19 001
<b>Feature types</b>	<b>CDT 423 HC-4CH</b>
<b>Input characteristics</b>	
Power supply voltage	3X380 V / 50-60 Hz +10%/-15%
Power	< 5000 VA
<b>Output characteristics</b>	
Circuits	4
Output current in charge and discharge mode	0-200 A CHARGE 0-300 A DISCHARGE
Max.output power in charge mode	3600 W
Max.output power in discharge mode	4200 W
Output voltage in charge mode	5 - 18 V
Output voltage in discharge mode	5 - 14 V (min.voltage depends on power cables length, V - 5m.)
Cells in output circuit	depends on battery type 3-6 for lead acid batteries
Output cables	$\geq 95 \text{ mm}^2$ length < 10 m.

Feature types	CDT 423 HC-4CH
<b>Analog inputs</b>	
Battery voltage measurement	1 ch / range : -5V to +18 V / res.: 1 mV input resistance : 400 Kom
Potentials measurement with reference electrode	1 ch / range : -5V to +5V / res. : 1 mV input resistance : 4 Mom
Temperature	1ch / range : -50 to +200°C Sensor type : Pt 100, 4 wire
Support for external data logging system	No
<b>Work modes</b>	
Charge	(CC, CV,CP )*
Discharge	(CC, CP)*
Parallel mode support	NO
<p style="text-align: center;"><b>Protections</b></p> <p style="text-align: center;">Over current, Over heat, Output current deviation, Output voltage deviation, Output power deviation, Power cables reversed polarity</p>	
<b>Resolution</b>	
Current	0.01 A
Voltage	0.001 V
<b>Accuracy</b>	
Current	+/- 0.1 %
Voltage	+/- 0.01V

<b>Feature types</b>	<b>CDT 423 HC-4CH</b>
<b>PC software: "CDT 423 HS"</b>	
<b>Communication</b>	
Interfaces	ETHERNET - PC Control
<b>Design parameters</b>	
Dimensions (width mm. x depth mm. x height mm.)	Standalone tester : 556 x 702 x 266 Cabinet for 5 testers : 660 x 800 x 1835
Weight (kg.)	tester : 55 kg cabinet : 120 kg
Cooling - forced air cooling, directed from front to rear	

\* CC -Constant Current CV - Constant Voltage CP - Constant Power

## ENVIRONMENTAL CONDITIONS

The CDT 423 HS charge / discharge tester safety approval applies to the following operating conditions:

- indoor use;
- altitude up to 2000 m;
- temperature 5 °C to 40 °C;
- maximum relative humidity 80 % for temperatures up to 31°C decreasing linearly to 50 % relative humidity at 40 °C;
- mains supply voltage fluctuations up to +10/-15 % of the nominal voltage;
- pollution degree 2;