



P M C

Rectifiers & Testers

CDT 423 HC-4CH

**CHARGE/DISCHARGE
TEST SYSTEM**

**TECHNICAL DATA
AND ENVIRONMENTAL
CONDITIONS**

Pi Em Si Ltd

Dobri Chintulov Str. 9,
Sliven 8800, Bulgaria

Tel: (359) 044 62 47 91

Fax: (359) 044 62 48 59

office@pmc-bg.com, www.pmc-bg.com

System Name and Serial Number	CDT 423 HC - 4CH 0001 / 03 19 001
Feature types	CDT 423 HC-4CH
Input characteristics	
Power supply voltage	3X380 V / 50-60 Hz +10%/-15%
Power	< 5000 VA
Output characteristics	
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
Analog inputs	
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
Work modes	
Charge	(CC, CV,CP)*
Discharge	(CC, CP)*
Parallel mode support	NO
<p style="text-align: center;">Protections</p> <p style="text-align: center;">Over current, Over heat, Output current deviation, Output voltage deviation, Output power deviation, Power cables reversed polarity</p>	
Resolution	
Current	0.01 A
Voltage	0.001 V
Accuracy	
Current	+/- 0.1 %
Voltage	+/- 0.01V

Feature types	CDT 423 HC-4CH
PC software: "CDT 423 HS"	
Communication	
Interfaces	ETHERNET - PC Control
Design parameters	
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;