ICT0550 Integrated **Cell Tester**



QA Lab



FLEXIBILITY AND SCALEABILITY

R&D Line

- Test Instrumentation from µA's to 2000A
- Individual Climate Chambers
- Cell and Current-Specific Pallets
- Work Flow Management and **Reporting Software**



The ICT0550 integrates test instrumentation, climate chambers and cell holders in a single integrated solution. Together with PEC's LifeTest Software it forms the basis for automating the daily operations in cell testing, resulting in a Turn-Key solution for your R&D labs, QA labs as well as your R&D cell manufacturing lines.

The ICT0550 ecosystem also contains the equipment and tools for the lab operators to prepare the cells with auxiliary sensors and clamping plates. The software will guide the operators through the logistics processes in the test lab, and gives lab managers and supervisors the tools to plan and monitor the test stands.

The ICT0550 holds 3 individually controlled climate chambers. Depending on cell size and current requirements, each chamber can test up to 40 cells at 50A max, or its equivalent in parallel (e.g. 4 x 500A). The test instrumentation is provided by using PEC's CT0550 or ACT0550 test equipment.

The chambers are equipped with all safety features required for non-abusive cell testing and formation procedures.



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Technical Specifications

Test Electronics	ACT0550	CT0550	
Voltage Range	0 to +5 Vdc		
Voltage Measurement accuracy	± 0,03% FSD (Full Scale Deviation)		
Current Range	50A (4 auto switched ranges)	50A (2 auto switched ranges)	
Paralleling	🗸 (up to 2000A)	🗸 (up to 1000A)	
Current Control Accuracy	\pm 0,03% FSD (Full Scale Deviation) in each range		
Sampling Speed	1 msec	10 msec	
Auxiliary In- and Outputs	1x temperature measurement input per channel Others Optional	Optional	

Climate Control

Chambers	3
Range	-30 to 80 °C
Internal Volume	330 L (to be confirmed exactly by Engineering)
Heating Speed	2K/min*
Cooling Speed	2K/min*
Allowable Heat Load*	800 Watt @ -20°C 2700 Watt @ 0°C 4400 Watt @ 20°C
Refrigerant	R448A

Safety

Visual & Audible Alarm	\checkmark
EM & Reinforced Door Lock	\checkmark
Gas Detection	\checkmark
Smoke Detection	\checkmark
Gas Extraction	\checkmark
Overpressure Relieve Valve	\checkmark
Fire Extinguishing System	Optional

Dimensions & Weight

0		
Dimensions	2950mm Length x 2700mm Height x 1825mm Width	
Weight	max 3500 kg including pallets	
Utilities		
Input Power	3x185260 Vac (Δ) + PE 3x320450 Vac (Υ) + N + PE	
Max Power Consumption	58,3 kW	

Water Cooled Gas Extraction

* measured in empty climate chamber with no heat load inside chamber





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