

EC-PDU Portable PEM Fuel Cell Demo Unit

Developed and sold in 1992, EC-PDU was the first product available which displayed a working fuel cell in a carrying case. ElectroChem's fuel cell demo unit is a powerful medium for demonstrating the concept and function of fuel cells to both scientific and non-technical audiences in a very accessible manner. The EC-PDU is a professional, self-contained system. All components and hardware are industrial quality. The system includes a polymer electrolyte 50W fuel cell stack EFC50-ST, power conditioning electronics, compressed hydrogen and oxygen, bottles, gas pressure and flow regulators and a demonstration device which operates directly on the power produced by the fuel cell (a CD player with stereo speakers is provided), all mounted in a standard aluminum suitcase.



The stack is based on the ElectroChem EFC50-ST fuel cell stack that is designed to operate without humidification or cooling. Each cell has provisions for voltage and temperature monitors to measure performance of each cell. Gold plated current collectors assure low contact resistance and resistance to oxidation. The stack is removable and easily disassembled/reassembled for study in the classroom or laboratory.

Specifications:	
Nominal power output:	50W@12VDC
Humidification:	Not required
Cooling:	Not required
Overall size:	50 cm x 42 cm x 18 cm (19.7"x16.5"x7.1")
Weight:	16kg.
Startup:	Immediate

Item #	Component/Description	Price
EC-PDU	Aluminum suitcase, EFC50-ST fuel cell stack, CD player with speakers mounted in suitcase, two lecture bottles, and gas/electrical connections.	Contact ElectroChem