EKTechnologies GmbH | LXinstruments GmbH Rudolf-Diesel-Str. 36 71154 Nufringen Germany





# **TECHNICAL PRODUCT INFORMATION**

# **Electrochemical instruments**

- high quality
- moderate prices
- excellent precision

### Your contact:

Technical support, services, demo & rental equipment, price information & quotes, consulting:

Tel.: +49(0)7032 / 895 93-2 Mail: info@ektechnologies.de Web: www.ektechnologies.de

Shop: www.lxinstruments.com/shop/elektrochemie/

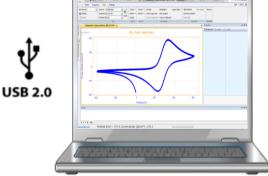
# OGFO5A

Potentiostat – Galvanostat – Battery test system  $\pm 50~\mu A$  to  $\pm 5~A~/~\pm 15~V~/~\pm 20~V$ 



POTENTIOSTAT
GALVANOSTAT
T°C PROBE
BATTERY HOLDER

# OrigaMarter 5



Licence free software
Windows XP, Vista, 7, 8 and 10.
EASY TO USE





# How it works

To supply the system, there are two possibilities, depending on your needs...

### **OGFDRV – DRIVE UNIT – MULTI-CHANNEL CONFIGURATION**



- ✓ Power supply
- √ Control of channels
- √ Built-in dummy cell





#### For instance:

5 channels 500 mA (OGF500) One EIS module

Use an "OGFDRV - Drive Unit", from one channel and to extend it in the future.

## OGFPWR - POWER SUPPLY - FOR SINGLE-CHANNEL



- ✓ Power supply
- √ For only one channel
- ✓ And one OGFEIS









### Consult our different Pack OGF:



OGF500



OGF01A



Pack OGF05A



OGF10A

#### For instance:

One channel 500 mA One EIS module

or

One channel 500 mA Pack OGF500

# OGFO5A



The OGF05A combines compactness, performance and accurate price. It is a 5 A potentiostat/galvanostat which can be complemented by one Impedance module OGFEIS.

His handle allows you to carry it easily and everywhere.

Connected to a Drive Unit OGFDRV, it becomes a Multi-Channel system.

#### **Built-in modularity:**

- 1. Standalone Potentiostat & Galvanostat
- 2. Temperature measurement
- 3. Battery Holder Connector
- 4. Analog I/O to connect external devices
- 5. USB control

#### **Main Technical Specifications**

Electrode connections	2, 3 and 4
Max applied potential	±15 V
Compliance voltage	±20 V
Maximum current	±5 A
Current ranges	±50 μA to ±5 A in 6 decades
Potential accuracy	< 0.1 % FSR (Full Scale Range)
Potential resolution	0.003 %
Current accuracy	< 0.1 % FSR
Current resolution	0.003 % FSR (Best: 1,5 nA)
Input impedance	1 TΩ (//20 pF)
Potential bandwidth	100 KHz
Computer interface	USB 2.0
Software	OrigaMaster

# **Optional items**



VOLTAMMETRY  Pot. Cyclic Voltammetry (CV)  Pot. Advanced Cyclic Voltammetry  Gal. Cyclic Voltammetry  Pot. Linear Voltammetry  Pot. Linear Voltammetry  Pot. Linear Voltammetry  Pot. Linear Voltammetry  Pot. CV 4 limits  VStaircase Voltammetry (SCV)  CHRONO  Open Circuit Potential (OCP)  Chrono Amperometry (CA)  Chrono Amperometry Expert  Chrono Amperometry (CC)  Chrono Potentiometry (CP)  Chrono Potentiometry Expert  Interactive Potentiometry  Single Chrono Amperometry  WSTAIR SAMPLE SAMPLE  CORROSION  Pitting corrosion  General corrosion (Rp)  Coupled corrosion (Evans)  Polarization for corrosion (Tafel)  Zero Resistance Ammeter (ZRA)  PULSE  Pot. Differential Pulse (DPV)  Gal. Recurrent Differential Pulse  Pot. SW Voltammetry (SWV)  Potentiometric Stripping Analysis (PSA)  BATTERIES and SUPER CAPACITORS  Single Charge and DisCharge Cycle  Expert Charge and Discharge Cycle  Exp	OrigaMaster's Methods	
Pot. Cyclic Voltammetry (CV) Pot. Advanced Cyclic Voltammetry Gal. Cyclic Voltammetry Pot. Linear Voltammetry Pot. Linear Voltammetry Pot. Interactive CV Pot. Interactive CV Staircase Voltammetry (SCV)  CHRONO  Open Circuit Potential (OCP) Chrono Amperometry Expert Chrono Coulometry (CA) Chrono Amperometry Expert Chrono Potentiometry (CP) Chrono Potentiometry Expert Interactive Potentiometry Single Chrono Amperometry  IMPEDANCE  Pot. Dynamic EIS Pot. Fixed Frequency EIS (Capacitance) Gal. Dynamic EIS  CORROSION  Pitting corrosion General corrosion (Rp) Coupled corrosion (Evans) Polarization for corrosion (Tafel) Zero Resistance Ammeter (ZRA)  PULSE  Pot. Differential Pulse (DPV) Gal. Recurrent Differential Pulse Pot. SW Voltammetry (SWV) Potentiometric Stripping Analysis (PSA)  BATTERIES and SUPER CAPACITORS Single Charge and DisCharge Cycle Expert Charge Cycle Expert Charge And Potentical Cycle Expert Charge And Potentical Cycle Expert Charge And Potentical Cycle Expert Charge		OrigaFlex - OGF05A
Pot. Advanced Cyclic Voltammetry Gal. Cyclic Voltammetry Pot. Linear Voltammetry Pot. Linear Voltammetry Pot. CV 4 limits Pot. Interactive CV Staircase Voltammetry (SCV)  CHRONO  Open Circuit Potential (OCP) Chrono Amperometry Expert Chrono Coulometry (CC) Chrono Amperometry (CP) Chrono Potentiometry (CP) Chrono Potentiometry Expert Interactive Potentiometry Single Chrono Amperometry  Fot. Dynamic EIS Pot. Fixed Frequency EIS (Capacitance) Gal. Dynamic EIS  CORROSION  Pitting corrosion Pitting corrosion (Rp) Coupled corrosion (Rp) Coupled corrosion (Tafel) Zero Resistance Ammeter (ZRA)  PULSE  Pot. Differential Pulse (DPV) Gal. Recurrent Differential Pulse Pot. SW Voltammetry (SWV) Potentiometry (SWV) Potentiometric Stripping Analysis (PSA)  BATTERIES and SUPER CAPACITORS  Single Charge and DisCharge Cycle Expert CAPACITORS		
Gal. Cyclic Voltammetry Pot. Linear Voltammetry Pot. Linear Voltammetry Pot. Linear Voltammetry Pot. Linear Voltammetry Pot. Interactive CV Staircase Voltammetry (SCV)  CHRONO  Open Circuit Potential (OCP) Chrono Amperometry (CA) Chrono Amperometry Expert Chrono Coulometry (CC) Chrono Potentiometry (CP) Chrono Potentiometry Expert Interactive Potentiometry Single Chrono Amperometry  IMPEDANCE  Pot. Dynamic EIS Pot. Fixed Frequency EIS (Capacitance) Gal. Dynamic EIS CORROSION  Pitting corrosion Pitting corrosion (Rp) Coupled corrosion (Evans) Polarization for corrosion (Tafel) Zero Resistance Ammeter (ZRA)  PULSE  Pot. Differential Pulse (DPV) Gal. Recurrent Differential Pulse Pot. SW Voltammetry (SWV) Potentiometric Stripping Analysis (PSA)  BATTERIES and SUPER CAPACITORS  Single Charge and DisCharge Cycle Expert Charge and DisCharge Cycle PITT  GITT  V		
Pot. Linear Voltammetry Pot. CV 4 limits Pot. Interactive CV Staircase Voltammetry (SCV)  CHRONO  Open Circuit Potential (OCP) Chrono Amperometry (CA) Chrono Amperometry Expert Chrono Coulometry (CC) Chrono Potentiometry (CP) Chrono Potentiometry Expert Vinteractive Potentiometry Single Chrono Amperometry  IMPEDANCE  Pot. Dynamic EIS Pot. Fixed Frequency EIS (Capacitance) Gal. Dynamic EIS CORROSION  Pitting corrosion Pitting corrosion (Rp) Coupled corrosion (Evans) Polarization for corrosion (Tafel) Zero Resistance Ammeter (ZRA)  PULSE  Pot. SW Voltammetry (SWV) Potentiometry (SWV) Potentiometry (SWV) Potentiometry (SC) Single Charge and DisCharge Cycle Expert (SCV)  CHRONO  CHRON  CHRONO  CHRONO  CHRON  CHRONO  CHRON  CHRONO  CHRON  CHRONO  CHRON  CHRON  CHRONO  CHRON  CHRON  CHRON  CHRONO  CHRON  CHRONO  CHRON  CHRON  CHRON  CHRONO  CHRON		·
Pot. CV 4 limits Pot. Interactive CV Staircase Voltammetry (SCV)  CHRONO  Open Circuit Potential (OCP) Chrono Amperometry (CA) Chrono Amperometry Expert Chrono Coulometry (CC) Chrono Potentiometry (CP) Chrono Potentiometry Expert Interactive Potentiometry Single Chrono Amperometry  IMPEDANCE  Pot. Dynamic EIS Pot. Fixed Frequency EIS (Capacitance) Gal. Dynamic EIS  CORROSION  Pitting corrosion  General corrosion (Rp) Coupled corrosion (Tafel) Zero Resistance Ammeter (ZRA)  PULSE  Pot. SW Voltammetry (SWV) Potentiometry (SWV) Potentiometric Stripping Analysis (PSA)  BATTERIES and SUPER CAPACITORS  Single Charge and DisCharge Cycle Expert Charge and DisCharge Cycle EXpert Charge and DisCharge Cycle EXPERT (CA)  ECHRONO  CHRONO  CHRONO  CORROSION  PITT  CHRONO  CHRONO  CHRONO  CORROSION  PULSE  PULSE  POLSE  BATTERIES and SUPER CAPACITORS  Single Charge and DisCharge Cycle Expert CAPACITORS		·
Pot. Interactive CV Staircase Voltammetry (SCV)  CHRONO  Open Circuit Potential (OCP) Chrono Amperometry (CA) Chrono Amperometry Expert Chrono Coulometry (CC) Chrono Potentiometry (CP) Chrono Potentiometry Expert Interactive Potentiometry Single Chrono Amperometry  IMPEDANCE  Pot. Dynamic EIS Pot. Fixed Frequency EIS (Capacitance) Gal. Dynamic EIS  CORROSION  Pitting corrosion (Rp) Coupled corrosion (Evans) Polarization for corrosion (Tafel) Zero Resistance Ammeter (ZRA)  PullSE  Pot. SW Voltammetry (SWV) Potentiometry (SWV) Potentiometry (SWV) Single Charge and DisCharge Gal. Charge and DisCharge Cycle Expert CAN (ACC AND (ACC AN		The second secon
CHRONO  Open Circuit Potential (OCP) Chrono Amperometry (CA) Chrono Amperometry Expert Chrono Coulometry (CC) Chrono Potentiometry (CP) Chrono Potentiometry Expert Interactive Potentiometry Single Chrono Amperometry  IMPEDANCE  Pot. Dynamic EIS Pot. Fixed Frequency EIS (Capacitance) Gal. Dynamic EIS  CORROSION  Pitting corrosion General corrosion (Rp) Coupled corrosion (Evans) Polarization for corrosion (Tafel) Zero Resistance Ammeter (ZRA) Pot. SW Voltammetry (SWV) Potentiometric Stripping Analysis (PSA)  BATTERIES and SUPER CAPACITORS  Single Charge and DisCharge Gal. Charge and DisCharge Cycle Expert Charge		
CHRONO  Open Circuit Potential (OCP) Chrono Amperometry (CA) Chrono Amperometry Expert Chrono Coulometry (CC) Chrono Potentiometry Expert Interactive Potentiometry Single Chrono Amperometry IMPEDANCE  Pot. Dynamic EIS Pot. Fixed Frequency EIS (Capacitance) Gal. Dynamic EIS  CORROSION  Pitting corrosion General corrosion (Rp) Coupled corrosion (Evans) Polarization for corrosion (Tafel) Zero Resistance Ammeter (ZRA) Pullse  Pot. SW Voltammetry (SWV) Potentiometry Single Charge or DisCharge Gal. Charge and DisCharge Cycle Expert Charge and DisCharge Cycle Expert Charge and DisCharge Cycle EXPERTICAL CANACITORS  CHRONO  CORNOSION  PULSE  PORE STORE S		·
Open Circuit Potential (OCP) Chrono Amperometry (CA) Chrono Amperometry Expert Chrono Coulometry (CC) Chrono Potentiometry (CP) Chrono Potentiometry Expert Interactive Potentiometry Single Chrono Amperometry IMPEDANCE  Pot. Dynamic EIS Pot. Fixed Frequency EIS (Capacitance) Gal. Dynamic EIS  CORROSION  Pitting corrosion General corrosion (Rp) Coupled corrosion (Evans) Polarization for corrosion (Tafel) Zero Resistance Ammeter (ZRA)  PULSE  Pot. Differential Pulse (DPV) Gal. Recurrent Differential Pulse Pot. SW Voltammetry (SWV) Potentiometric Stripping Analysis (PSA)  BATTERIES and SUPER CAPACITORS  Single Charge or DisCharge Gal. Charge and DisCharge Cycle Expert Charge and DisCharge Cycle		·
Chrono Amperometry (CA) Chrono Amperometry Expert Chrono Coulometry (CC) Chrono Potentiometry (CP) Chrono Potentiometry Expert Interactive Potentiometry Single Chrono Amperometry  IMPEDANCE  Pot. Dynamic EIS Pot. Fixed Frequency EIS (Capacitance) Gal. Dynamic EIS  CORROSION  Pitting corrosion General corrosion (Rp) Coupled corrosion (Evans) Polarization for corrosion (Tafel) Zero Resistance Ammeter (ZRA)  PULSE  Pot. Differential Pulse (DPV) Gal. Recurrent Differential Pulse Pot. SW Voltammetry (SWV) Potentiometric Stripping Analysis (PSA)  BATTERIES and SUPER CAPACITORS  Single Charge or DisCharge Gal. Charge and DisCharge Cycle Expert CAPACITORS	CHRONO	
Chrono Amperometry Expert  Chrono Coulometry (CC)  Chrono Potentiometry (CP)  Chrono Potentiometry Expert  Interactive Potentiometry  Single Chrono Amperometry  IMPEDANCE  Pot. Dynamic EIS  Pot. Fixed Frequency EIS (Capacitance)  Gal. Dynamic EIS  CORROSION  Pitting corrosion  General corrosion (Rp)  Coupled corrosion (Evans)  Polarization for corrosion (Tafel)  Zero Resistance Ammeter (ZRA)  PULSE  Pot. Differential Pulse (DPV)  Gal. Recurrent Differential Pulse  Pot. SW Voltammetry (SWV)  Potentiometric Stripping Analysis (PSA)  BATTERIES and SUPER CAPACITORS  Single Charge or DisCharge Gal. Charge and DisCharge Cycle  Expert CAPACITORS	Open Circuit Potential (OCP)	✓
Chrono Coulometry (CC) Chrono Potentiometry (CP) Chrono Potentiometry Expert Interactive Potentiometry Single Chrono Amperometry  IMPEDANCE  Pot. Dynamic EIS Pot. Fixed Frequency EIS (Capacitance) Gal. Dynamic EIS  CORROSION  Pitting corrosion General corrosion (Rp) Coupled corrosion (Evans) Polarization for corrosion (Tafel) Zero Resistance Ammeter (ZRA)  PULSE  Pot. Differential Pulse (DPV) Gal. Recurrent Differential Pulse Pot. SW Voltammetry (SWV) Potentiometric Stripping Analysis (PSA)  BATTERIES and SUPER CAPACITORS  Single Charge and DisCharge Gal. Charge and DisCharge Cycle Expert Charge and DisCharge Cycle Expert Charge and DisCharge Cycle EXPERTICAL STRIP STRI	Chrono Amperometry (CA)	✓
Chrono Potentiometry (CP) Chrono Potentiometry Expert Interactive Potentiometry Single Chrono Amperometry  IMPEDANCE  Pot. Dynamic EIS Pot. Fixed Frequency EIS (Capacitance) Gal. Dynamic EIS  CORROSION  Pitting corrosion  General corrosion (Rp) Coupled corrosion (Evans) Polarization for corrosion (Tafel) Zero Resistance Ammeter (ZRA)  PULSE  Pot. Differential Pulse (DPV) Gal. Recurrent Differential Pulse Pot. SW Voltammetry (SWV) Potentiometric Stripping Analysis (PSA)  BATTERIES and SUPER CAPACITORS  Single Charge or DisCharge Gal. Charge and DisCharge Cycle Expert CAPACITORS  GITT	Chrono Amperometry Expert	✓
Chrono Potentiometry Expert  Interactive Potentiometry  Single Chrono Amperometry  IMPEDANCE  Pot. Dynamic EIS  Pot. Fixed Frequency EIS (Capacitance)  Gal. Dynamic EIS  CORROSION  Pitting corrosion  General corrosion (Rp)  Coupled corrosion (Evans)  Polarization for corrosion (Tafel)  Zero Resistance Ammeter (ZRA)  PULSE  Pot. Differential Pulse (DPV)  Gal. Recurrent Differential Pulse  Pot. SW Voltammetry (SWV)  Potentiometric Stripping Analysis (PSA)  BATTERIES and SUPER CAPACITORS  Single Charge or DisCharge  Gal. Charge and DisCharge Cycle  Expert Charge and DisCharge Cycle  Expert Charge and DisCharge Cycle  PITT  GITT	Chrono Coulometry (CC)	<b>√</b>
Interactive Potentiometry  Single Chrono Amperometry  IMPEDANCE  Pot. Dynamic EIS  Pot. Fixed Frequency EIS (Capacitance)  Gal. Dynamic EIS  CORROSION  Pitting corrosion  General corrosion (Rp)  Coupled corrosion (Evans)  Polarization for corrosion (Tafel)  Zero Resistance Ammeter (ZRA)  *  *  *  *  *  *  *  *  *  *  *  *  *	Chrono Potentiometry (CP)	✓
Single Chrono Amperometry  IMPEDANCE  Pot. Dynamic EIS  Pot. Fixed Frequency EIS (Capacitance)  Gal. Dynamic EIS  CORROSION  Pitting corrosion  Fitting corrosion (Rp)  Coupled corrosion (Evans)  Polarization for corrosion (Tafel)  Zero Resistance Ammeter (ZRA)  PULSE  Pot. Differential Pulse (DPV)  Gal. Recurrent Differential Pulse  Pot. SW Voltammetry (SWV)  Potentiometric Stripping Analysis (PSA)  BATTERIES and SUPER CAPACITORS  Single Charge or DisCharge  Gal. Charge and DisCharge Cycle  Expert Charge and DisCharge Cycle  Expert Charge and DisCharge Cycle  FITT  FITT	Chrono Potentiometry Expert	✓
IMPEDANCE  Pot. Dynamic EIS Pot. Fixed Frequency EIS (Capacitance)  Gal. Dynamic EIS  CORROSION  Pitting corrosion General corrosion (Rp) Coupled corrosion (Evans) Polarization for corrosion (Tafel) Zero Resistance Ammeter (ZRA)  PULSE  Pot. Differential Pulse (DPV) Gal. Recurrent Differential Pulse Pot. SW Voltammetry (SWV) Potentiometric Stripping Analysis (PSA)  BATTERIES and SUPER CAPACITORS  Single Charge or DisCharge Gal. Charge and DisCharge Cycle Expert Charge and DisCharge Cycle  Expert Charge and DisCharge Cycle  FITT  GITT	Interactive Potentiometry	✓
Pot. Dynamic EIS Pot. Fixed Frequency EIS (Capacitance)  Gal. Dynamic EIS  CORROSION  Pitting corrosion  General corrosion (Rp)  Coupled corrosion (Evans)  Polarization for corrosion (Tafel)  Zero Resistance Ammeter (ZRA)  PULSE  Pot. Differential Pulse (DPV)  Gal. Recurrent Differential Pulse Pot. SW Voltammetry (SWV)  Potentiometric Stripping Analysis (PSA)  BATTERIES and SUPER CAPACITORS  Single Charge or DisCharge Gal. Charge and DisCharge Cycle  Expert Charge and DisCharge Cycle  PITT  GITT	Single Chrono Amperometry	✓
Pot. Fixed Frequency EIS (Capacitance)  Gal. Dynamic EIS  CORROSION  Pitting corrosion  General corrosion (Rp)  Coupled corrosion (Evans)  Polarization for corrosion (Tafel)  Zero Resistance Ammeter (ZRA)  PULSE  Pot. Differential Pulse (DPV)  Gal. Recurrent Differential Pulse  Pot. SW Voltammetry (SWV)  Potentiometric Stripping Analysis (PSA)  BATTERIES and SUPER CAPACITORS  Single Charge or DisCharge  Gal. Charge and DisCharge Cycle  Expert Charge and DisCharge Cycle  FITT  GITT		
Gal. Dynamic EIS  CORROSION  Pitting corrosion  General corrosion (Rp)  Coupled corrosion (Evans)  Polarization for corrosion (Tafel)  Zero Resistance Ammeter (ZRA)  PULSE  Pot. Differential Pulse (DPV)  Gal. Recurrent Differential Pulse  Pot. SW Voltammetry (SWV)  Potentiometric Stripping Analysis (PSA)  BATTERIES and SUPER CAPACITORS  Single Charge or DisCharge  Gal. Charge and DisCharge Cycle  Expert Charge and DisCharge Cycle  PITT  GITT	Pot. Dynamic EIS	✓
Gal. Dynamic EIS  CORROSION  Pitting corrosion  General corrosion (Rp)  Coupled corrosion (Evans)  Polarization for corrosion (Tafel)  Zero Resistance Ammeter (ZRA)  PULSE  Pot. Differential Pulse (DPV)  Gal. Recurrent Differential Pulse  Pot. SW Voltammetry (SWV)  Potentiometric Stripping Analysis (PSA)  BATTERIES and SUPER CAPACITORS  Single Charge or DisCharge  Gal. Charge and DisCharge Cycle  Expert Charge and DisCharge Cycle  PITT  GITT		✓
CORROSION  Pitting corrosion		✓
General corrosion (Rp)  Coupled corrosion (Evans)  Polarization for corrosion (Tafel)  Zero Resistance Ammeter (ZRA)  *  *  *  *  *  *  *  *  *  *  *  *  *		
Coupled corrosion (Evans)  Polarization for corrosion (Tafel)  Zero Resistance Ammeter (ZRA)  *  **  **  **  **  **  **  **  **  *	Pitting corrosion	✓
Polarization for corrosion (Tafel)  Zero Resistance Ammeter (ZRA)  *  **  **  **  **  **  **  **  **  *	General corrosion (Rp)	✓
Polarization for corrosion (Tafel)  Zero Resistance Ammeter (ZRA)  *  **  **  **  **  **  **  **  **  *	Coupled corrosion (Evans)	✓
Zero Resistance Ammeter (ZRA)  PULSE  Pot. Differential Pulse (DPV)  Gal. Recurrent Differential Pulse  Pot. SW Voltammetry (SWV)  Potentiometric Stripping Analysis (PSA)  **  **  **  **  **  **  **  **  **		✓
PULSE  Pot. Differential Pulse (DPV)  Gal. Recurrent Differential Pulse  Pot. SW Voltammetry (SWV)  Potentiometric Stripping Analysis (PSA)  **  **  **  **  **  **  **  **  **		×
Gal. Recurrent Differential Pulse  Pot. SW Voltammetry (SWV)  Potentiometric Stripping Analysis (PSA)  BATTERIES and SUPER CAPACITORS  Single Charge or DisCharge  Gal. Charge and DisCharge Cycle  Expert Charge and DisCharge Cycle  PITT  GITT		
Pot. SW Voltammetry (SWV)  Potentiometric Stripping Analysis (PSA)  BATTERIES and SUPER CAPACITORS  Single Charge or DisCharge  Gal. Charge and DisCharge Cycle  Expert Charge and DisCharge Cycle  PITT  GITT	Pot. Differential Pulse (DPV)	✓
Potentiometric Stripping Analysis (PSA)  BATTERIES and SUPER CAPACITORS  Single Charge or DisCharge  Gal. Charge and DisCharge Cycle  Expert Charge and DisCharge Cycle  PITT  GITT	Gal. Recurrent Differential Pulse	✓
Potentiometric Stripping Analysis (PSA)  BATTERIES and SUPER CAPACITORS  Single Charge or DisCharge  Gal. Charge and DisCharge Cycle  Expert Charge and DisCharge Cycle  PITT  GITT	Pot. SW Voltammetry (SWV)	✓
BATTERIES and SUPER CAPACITORS  Single Charge or DisCharge  Gal. Charge and DisCharge Cycle  Expert Charge and DisCharge Cycle  PITT  GITT		×
Gal. Charge and DisCharge Cycle  Expert Charge and DisCharge Cycle  PITT  GITT		
Expert Charge and DisCharge Cycle  PITT  GITT  ✓	Single Charge or DisCharge	✓
Expert Charge and DisCharge Cycle  PITT  GITT  ✓		✓
PITT  GITT		✓
0111		✓
	GITT	✓
Constant Power ✓	Constant Power	✓
Profile Generator		✓
Internal Resistance ✓		✓

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