



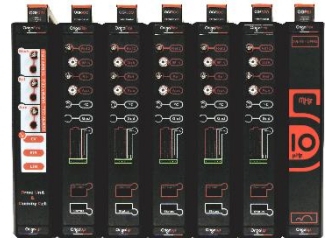
# How it works

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



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

For instance:  
5 channels 500 mA (OGF500)  
+  
One EIS module

## OGFPWR – POWER SUPPLY – FOR SINGLE-CHANNEL



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



Consult our different Pack OGF:



Pack OGF500



Pack OGF01A



Pack OGF05A



Pack OGF10A

For instance:  
One channel 500 mA  
+  
One EIS module  
**or**  
One channel 500 mA  
=  
Pack OGF500



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

Its handle allows you to carry it easily and everywhere.

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

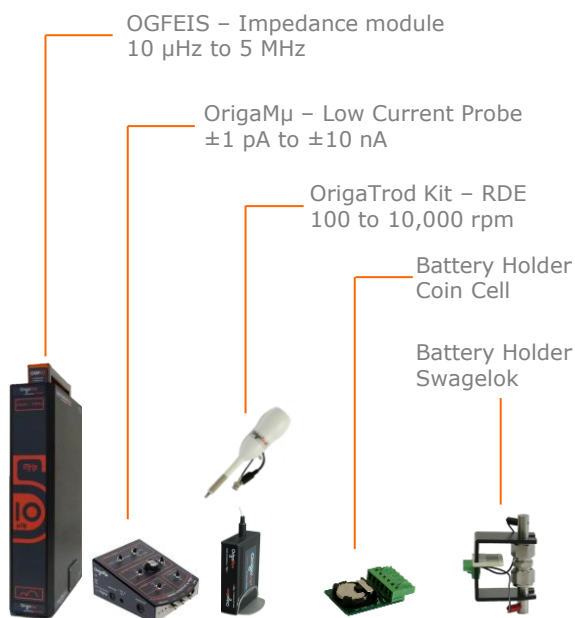
### Built-in modularity:

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<br>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<br>(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. 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 (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                              | ✓ |
| Constant Power                    | ✓ |
| Profile Generator                 | ✓ |
| Internal Resistance               | ✓ |

