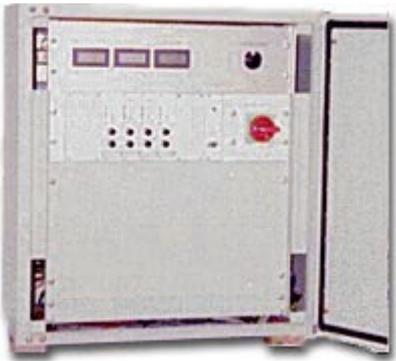


## Potentiostatic Power Supply Unit 2045



## Automatic Supply of Cathodic Protection Potentiostatic Power Supply Unit 2045

### Features

- Different output voltage and current ranges up to 24V 10A / 12V 20A per circuit
- 1 to 4 anode circuits can be added in a 640x600x400 (HxWxD) enclosure
- 1 to 10 anode circuits obtained using 1600x600x600 cabinet
- 3 different reference electrode input ranges
- Potentiostatic or constant current mode selection on each module
- LCD panel meters for electrode potential, output voltage and output current
- Potential and current limit adjustments for every circuit
- Clear LED monitoring of operation on each module:
  - PWR for power on
  - MEAS blinks when LCDs monitor this module
  - OVER for overprotection
  - UNDER for under protection
  - LIMIT for indicating current limit operation
  - MAN for indicating constant current mode
- Optionally, the under protection can be monitored remotely by an alarm contact. The alarm contact can be either combined for all the circuits or used separately.
- Another monitoring option for potential, current and voltage is as a 4...20mA signal
- RS485/MODBUS digital field bus connection available for full control and monitoring for all of the circuits

## Technical Specifications

### Mains input:

3 x 400VAC 50Hz 10A  $\pm$ 10% or  
1 x 230VAC 50Hz 10A  $\pm$ 10%, 1-phase models  
other voltages on request

### Output ranges:

12V 10A - 24V 5A  
12V 20A - 24V 10A  
all anode circuits must have same  
output current and voltage

### Output ripple:

< 50mV

### Reference electrode input ranges:

-250...+750mV, e.g. Zn - Fe  
-2000...0mV, e.g. Ag/AgCl<sub>2</sub> - Al  
Cu/CuSO<sub>4</sub> - Fe  
-450...0mV  
jumper setting for input range on control unit

### Input impedance:

1M $\Omega$ , differential input

### Operating principle:

Linear transistor output stage controlled by potentiostatic feedback loop that is selected by dip switch on control unit

### Operating temperature:

-10 ... +40°C  
on request: -30 ... +40°C

Protection class: IP44

Dimensions: 1-4 anode circuits: 640x600x400 (HxWxD)

1-10 anode circuits: 1600x600x600

### EMC:

EN 50081-1 (1992) emissions  
EN 50082-2 (1995) immunity  
(FIMKO)

Approvals: CE