PGU-30V-20A





Overview

High power Potentiostat/Galvanostat

- High-resolution interface: 24 bit data acquisition, 26 bit scan resolution (330 nV)
- Communication via ethernet
- Control inputs and outputs for external control
- Automatic operation with built-in interface.
- Mains operation 230 V

Description

The **PGU-30V-20A** unit offers a wide range of applications, typical in electroplating (cathodic dip coating), anodizing of aluminium and battery research.

The device supplies a compliance voltage of \pm 35V at a current of \pm 20A to the counter electrode. The polarization voltage is \pm 30V (600W). With 8 measuring ranges from 20A to 10µA, the user gets also reasonable values at lower currents.

Automation of measurement is realized via our software *EcmWin*. Standard measurement methods are: open curcuit potential, potentiostatic/dynamic, galvanostatic/dynamic, pulse and hold experiments, reversed scan, cyclic voltametry and sequence measurement (including battery load and unload methods).

All tests are performed with limit value monitoring. Data are recorded in ASCII format, so further processing of the results is uncomplicated. Data acquisition is performed with max. 1000 values/s per channel, storage with max.1000 values/s per channel.





19

Technical Details

| Compliance voltage | ± 36V | |
|--------------------|--|------|
| Current | ± 20A | |
| Polarisation range | ± 30V Potentiostat ± 20A Galvanostat. | |
| Current ranges | 8 ranges: 20A to 10µA. | |
| Resolution | 1nA = 1mV in 10µA range | |
| Input impedance | 10 ¹³ Ohm. | |
| Interface | Ethernet | |
| A/D, D/A converter | 24Bit, Polarisation 26 Bit | |
| Scanrate | 1 µV/s up to 10.000mV/s | |
| Data acquisition | max. 1000 values/s | |
| Methods | OCP, constant value, linear and cyclic sweep, pulses, sequence | |
| Output | Potential, current, current with 40Hz filter, current with x10 amplifier | |
| Input | Potential, current, current with 40Hz filter, current with x10 amplifier | 1-22 |
| Size of case | 500mm x 500mm x 400mm (WxDxH) | |

IPS Elektroniklabor GmbH & Co. KG • Am Eppertshäuser Pfad 2 • D-64839 Münster • Germany • www.ips-jaissle.de

14