ALMANAC LIFE SCIENCE INDIA PVT. LTD.
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# ADVANCE POWER PACK

## ALS-PS005

## DESCRIPTION

The Power Pack **ALS-PS005** is an advanced rectifier device designed to convert alternating current (AC) to direct current (DC) for high-precision applications. Its versatile design supports constant voltage and current control, making it an ideal solution for a wide range of laboratory experiments such as nucleic acid gel electrophoresis, protein gel electrophoresis, Western blotting, and protein transfer. This device is widely used in biological and medical fields for precise, stable, and reliable performance.

## KEY FEATURES:

**Real-Time Fine-Tuning:** Easily adjust settings during operation to achieve optimal results.
**Intelligent PID Control:** Ensures stable and reliable output for both voltage and current.
**HD LCD Display:** Clearly shows setting parameters, real-time voltage, and current values.
**High Precision Performance:** Constant voltage and current with high accuracy.
**Multiple Working Modes:** Includes constant voltage, constant current, timing gradient voltage, and current programming.
**Forward Switching Power Supply Design**: Guarantees stability, even with varying loads.
**Comprehensive Protection:** Features over-voltage, over-current, overload, variable load, and no-load protection, along with automatic alarms for abnormal conditions.
**Power-Off Memory:** In case of an accidental power outage, the system will automatically resume the unfinished program when restarted.

## TECHNICAL SPECIFICATIONS:

**Input Power Supply:** 180V-240V
**AC Frequency:** 50Hz/60Hz
**Ambient Temperature**: 4°C to 40°C
**Environmental Humidity:** 10%-70%

### OUTPUT RANGE:

**Voltage:** 6V-600V (accuracy 1V)
**Current:** 5mA-600mA (precision 1mA)

### CONTROL ACCURACY:

**Voltage Setting:**
<100V voltage stability accuracy: <1V
>100V voltage stability accuracy: <±1%

### CURRENT SETTING:

<100mA current stability accuracy: <1mA
>100mA current stability accuracy: <±1%
**Rated Output Power:** 300W
**Dimensions:** 265mm (L) x 215mm (W) x 120mm (H)
**Output Quantity:** Positive, negative A/B four groups.

### WORKING MODES:

**Constant Voltage (U Mode):** Default mode, ensures constant voltage during operation.
**Constant Current (I Mode):** Provides stable current control for sensitive applications.
**Gradient Voltage/Current (Gradient U/I Mode):** Allows setting of three different voltage or current segments for more complex protocols.