

Aplab 8600 Series

Programmable A C Power Source



APLAB's new PACS series of A C Power Sources are compact in size and light in weight and yet with a built-in isolation transformer. Use of the latest PWM technology provides high conversion efficiency and distortion-free output AC source. PACS series accepts Universal line input and has a built in PFC assuring input power factor of 0.99 at full load. This enables PACS series usable anywhere in the world. The output AC provides full rated current and is delivered in two voltage ranges of 135V AC max or 270V AC max using range selector push switch on the front panel.

Voltage, current and power level and frequency of the output being delivered is displayed on a single vacuum fluorescent display. The voltage and frequency setting is done with the help of rotary encoder and track switches. In manual models the voltage and frequency is set with multi-turn potentiometer, while the displays are of LED. A separate output ON/OFF switch controls power to the load. The unit is protected against over temperature, overload and short circuit.

Standard models are available in three output power ratings of 500VA, 1000VA and 1500VA. Models with higher power output can be offered against specific requirements

PACS series is ideally suitable for industrial and consumer durable product testing as well as power conversion and automatic test equipment. They are used in avionics and military applications for bench top or standard 19" rack mount applications.

Features:

- Distortion-free sine wave output of programmable frequency and voltage,
- Step-less frequency setting from 45Hz to 450Hz
- Panel selectable two output voltage ranges: 0-135V or 0-270V AC
- Independent ON/OFF power switch for input and output
- Built-in Torroidal isolation transformer
- Automatic protection against overload, short circuit and over temperature
- Built in PFC to provide 0.99 input power factor and wide input range
- Compact size and light weight, standard 19" rack 2U high construction
- Conforms to EN 55022, class A, safety standard EN 60950

Model Selection:

86	05	M
Series	Power Output	M- Manual
	05- 500VA	A- Analog prog. 0-5V
	10- 1000VA	P- Programmable*
	15- 1500VA	

* Models offered against specific request

Specifications

Model	8605 500VA	8610 1000VA	8615 1500VA
ELECTRICAL			
INPUT			
Voltage	90V – 265V AC, Single Phase with PFC		
Frequency	47 Hz to 440Hz		
OUTPUT			
Power	500 VA	1000VA	1500VA
Voltage Range	0-135V AC or 0-270V AC selectable		
Frequency	45Hz to 500Hz		
CURRENT-MAXIMUM			
At 0-135V Range	4.0 Amps	8.0 Amps	12.0 Amps
At 0-270V Range	2.0 Amps	4.0 Amps	6.0 Amps
Crest Factor	3 : 1		
Power Factor	0.7 Lag to 0.7 Lead		
Line Regulation	± 2%		
Load Regulation	± 2%		
Efficiency	Better than 85% at Nominal Input & Full Load		
PROTECTIONS			
Overload/Short-circuit	Output Trip and Indication		
Over Temperature	Output Trip and Indication		
Input over-current Protection	Fuse		
CONTROLS & INDICATIONS			
Input Power ON/OFF	Rocker Switch with Indicator		
Output ON/OFF	Rocker Switch with Indicator		
Display for Output Voltage/ Models	True RMS, 3½ Digit Seven Segment LED Display in Manual Models and VFD/LCD Display in Digital Programmable		
Load Current/ Power			
Display for Frequency	Seven Segment Four Digit LED Display for Manual Model/VFD/LCD Display in Digital Programmable Model		
Voltage Setting	Multi-turn potentiometer in Manual Model/Rotary encoder in Digital Programmable Model		
Freq. Setting	Multi-turn potentiometer in Manual Model/Rotary Encoder in Digital Programmable Model		
Voltage Range Select	Two Position Push Switch		
Fault Alarm	Common LED alarm for abnormal conditions (over load & over temperature)		
Display Volt, Amps & Power	By using Push Switch (Only in Manual Model)		
MECHANICAL & ENVIRONMENTAL			
Dimensions (mm)	88.0H x 482.6W x 500.0D		
Weight in KGs	21.0kGs	21.0kGs	23.0kGs
Operating Temperature	0-45°C , peak 50° C		
Input Connection	Line Power Socket for 500VA & 1000VA models		Terminal Block with safety cover for 1500VA Model
Output Connection	Universal Socket		

Specification subject to change without notice.

Specifications indicate typical performance at 25°C ±5°C, nominal input of 120V AC/230V AC

