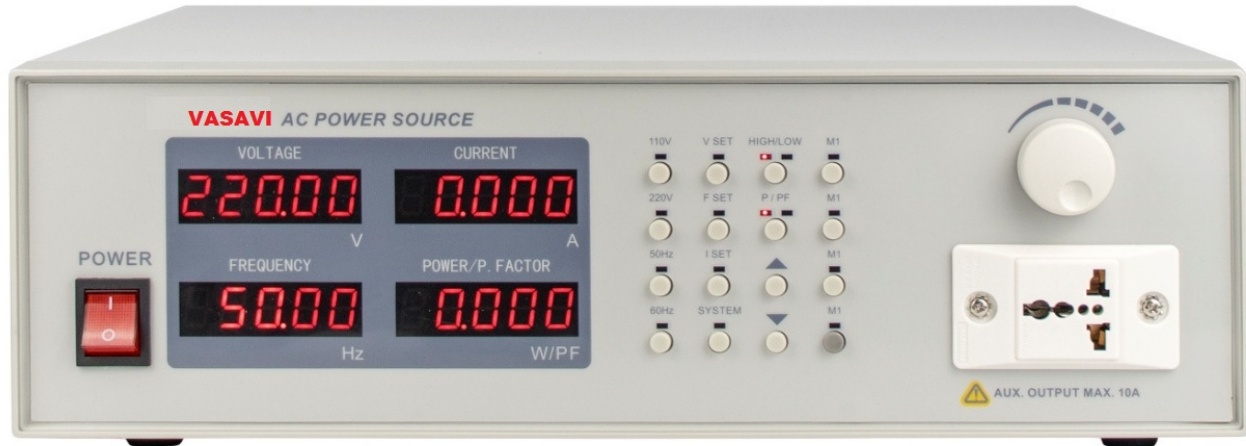


## AC Power Source (VE5101APS)

### Programmable AC Power Source in Single Phase Output

#### Product photo



### VE5101APS

#### Features

- ✓ Full range adjustable output: Low 1-150V, High 150.1~300V, resolution 0.1V
- ✓ Output frequency: 45-250Hz
- ✓ Fast output key for 110V/220V and 50Hz/60Hz
- ✓ Panel lock function
- ✓ 3 sets memories for voltage and frequency settings
- ✓ Unlimited rotary knob for voltage and frequency adjustment, minimum step 0.001
- ✓ Strong overload capacity, overload 300% within 2s
- ✓ Withstand transient current 1.5 times of rated current within 0.1s
- ✓ Response time less than 20ms for 100% load and unload
- ✓ 5 digits high accuracy LED display for voltage, current, frequency, active power, power factor
- ✓ With soft-start function, set voltage rise time (0~99.999s), avoid damage by surge current during load start-up
- ✓ Over load, over current, over temperature and short circuit protections
- ✓ RS232 interface (TFC51 Series)

#### VASAVI ELECTRONICS

## AC Power Source (VE5101APS)

### SPECIFICATIONS

“! Specifications are subject to change without prior notice.”

- **CAPACITY** : 1 KVA
- **CIRCUIT MODE** : IGBT / SPWM
- **INPUT AC POWER REQUIREMENT** : 110V / 220V  $\pm$  10% ; 47 ~ 63 Hz
- **OUTPUT** : 1-PHASE
- **O/P VOLTAGE** :
  - a) **LOW RANGE** : 1Vac ~ 150Vac
  - b) **HIGH RANGE** : 150Vac ~ 300Vac
- **O/P FREQUENCY** : 45 ~ 250 Hz in Step of 1 Hz
- **Max. CURRENT** :
  - a) **LOW RANGE @ 120V** : 8.4A
  - b) **HIGH RANGE @ 240V** : 4.2A
- **LOAD REGULATION** :  $\leq$  1%
- **LINE REGULATION** :  $\leq$  1%
- **HARMONIC DISTORTION** :  $\leq$  2% (Resistive Load @ LOW 120V & HIGH 240V)
- **FREQUENCY STABILITY** :  $\leq$  0.1%
- **CREST FACTOR** : 1.41  $\pm$  0.10
- **EFFICIENCY** :  $\geq$  75%
- **FREQUENCY RESOLUTION** : 0.1Hz
- **VOLTAGE RESOLUTION** : 0.01 V
- **CURRENT RESOLUTION** : 0.01 A
- **MEASUREING ACCURACY**
  - **VOLTAGE** : 0.5% full scale + 5 digit
  - **CURRENT** : 0.5% full scale + 5 digit
  - **FREQUENCY** : 0.1% full scale + 5 digit
  - **POWER** : 0.5% full scale + 5 digit
- **PRESET FUNCTION** : Preset output voltage, output frequency
- **FAST KEY FUNCTION** : Fast key for 110V, 220V, 50Hz, 60Hz
- **ALARM FUNCTION** : Audible and visual alarm once protective device activated;  
display error code on LED
- **PROTECTION** : Fast-response circuit to detect over current, over load,  
over temperature and short circuit; Output will be shut down in protection mode.
- **COOLING** : Cooling fan
- **OPERATIONL ENVIRONMENT** : 0°C-40°C,  $\leq$ 90% RH(Non-condensing), Altitude: 2000 feet
- **DIMENSION** : 430Wx133xH480D (MM)

### VASAVI ELECTRONICS