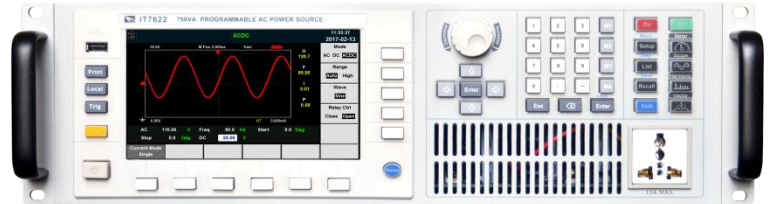




Model IT7622 AC Power Supply

IT7622 AC POWER SUPPLY

- Adopt high precision linear amplification technology, low noise, high stability
- High current crest factor, suitable in surge current testing
- Measurement contents VRMS, VPK, IRMS, IPK, W, VA, PF, FREQ
- Simulation function of voltage temporary drop , instant interruption, voltage variation simulation
- Settable initial phase and stop phase
- Monitoring function of voltage and current
- Parallel connection or parallel into 3-phase output
- OTP, OCP, OVP, OPP protection function
- GPIB, LAN, USB, RS232, CAN standard communication interface, external front panel USB interface



| Parameter | IT7622 |
|--------------------------------|--|
| AC Input | |
| Voltage | 220Vac±10% or 110Vac±10% |
| Phase | 1-phase |
| Frequency | 47-63Hz |
| Max. current | 20A/40A |
| Power factor | 0.7(typical) |
| AC Output | |
| Max. output power (total) | 750VA |
| Voltage range | 2V-300V, 1V-150V/2V-300V Auto |
| Voltage resolution | 10mV |
| Voltage accuracy ^{*1} | ±0.2%+(0.2%+0.2%×Kfreq)×FS ^{*2} |

| | | |
|--------------------------------------|-------------------|--|
| Temp. coefficient | | $\pm(0.04\%$ per degree from 25 °C) |
| Current (rms) | 1-150Vac | 0-6Arms |
| | 2-300Vac | 0-3Arms |
| Peak current | 1-150Vac | 0-18Apeak |
| | 2-300Vac | 0-9Apeak |
| THD ^{*3} | | $\leq 0.5\%$ at 45-500Hz (Resistive Load) |
| | | $\leq 2\%$ at 501-5000Hz (Resistive Load) |
| Crest factor | | 3 |
| Line regulation | | $\leq 0.1\%$ FS(Resistive Load) |
| Load regulation | | $\leq 0.5\%$ FS(Resistive Load) |
| Response time | | $\leq 100\mu\text{s}$ (Typical) |
| Output phase | | Single phase |
| DC Output | | |
| Max. output power | | 375W |
| Voltage output | | $\pm 200\text{V}/\pm 400\text{V}$ ^{*6} |
| Voltage resolution | | 10mV |
| Voltage output and readback accuracy | | $\pm(0.2\%+0.2\%$ FS) ^{*7} |
| Temp. coefficient | | $\pm(0.04\%$ per degree from 25 °C) |
| Current range | | 3A/1.5A |
| Current resolution | | 10mA |
| Current readback accuracy | | $\pm(0.3\%+0.3\%$ FS) ^{*7} |
| Power meter accuracy | | $\pm(0.4\%+0.4\%$ FS) ^{*7} |
| Voltage ripple | Vp-p | 300mVp-p |
| | rms | 150mVrms |
| Meter | | |
| AC Voltage | Range | 0-300Vac |
| | Resolution | 10mV |
| | Accuracy | $\pm(0.2\%+0.2\%$ FS) |
| | Temp. coefficient | $\pm(0.04\%$ per degree from 25 °C) |
| AC current (rms) | Range | 0-6Arms |
| | Resolution | 10mA |
| | Accuracy | $\pm 0.3\%+(0.3\%+0.2\%\times\text{Kfreq})\times\text{FS}$ ^{*2} |
| | Temp. coefficient | $\pm(0.04\%$ per degree from 25 °C) |
| AC current (peak) | Range | 0-18Apeak |

| | | |
|-------------------------|------------------------|---|
| | Resolution | 10mA |
| | Accuracy | $\pm 0.3\% + (0.3\% + 0.2\% \times \text{Kfreq}) \times \text{FS}^{*2}$ |
| | Temp. coefficient | $\pm (0.04\% \text{ per degree from } 25^\circ\text{C})$ |
| Power | Resolution | 10mW |
| | Accuracy | $\pm 0.4\% + (0.4\% + 0.2\% \times \text{Kfreq}) \times \text{FS}^{*2}$ |
| | Temp. coefficient | $\pm (0.04\% \text{ per degree from } 25^\circ\text{C})$ |
| Phase angle | Range | 0-360° |
| | Resolution | 1° |
| | Accuracy | $\pm 1^\circ (45\text{-}65\text{Hz})^{*5}$ |
| Frequency | Range | 10-5KHz |
| | Resolution | 0.1Hz |
| | Accuracy | $\pm 0.1\% + 0.1\text{Hz} (45\text{Hz-}999.9\text{Hz}) / \pm 0.1\% + 1\text{Hz} (1\text{KHz-}5\text{KHz})^{*4}$ |
| Other | | |
| Protection | OVP、OPP、OCP、OTP | |
| Interface | GPIB、USB、LAN、RS232、CAN | |
| Dimension(WxHxD) | 3u | |

*1:Pre-conditions:Slow loop speed:10-100Hz,Fast loop speed:10-5KHz;

*2:FS=full scale,Vrms 300Vac, Irms=6A; Ipk=18A;P=750VA;

*3:THD testing min. voltage is Auto-level:10Vac, High-level:20Vac;

the maximum distortion test is based on max. load (linear) current under range of 125Vac(auto level) and 250Vac(300V level)

*4: Testing frequency accuracy display min. voltage is 30Vac.

*5: Testing pre-condition is FAST level;

*6:Setting voltage no below than 50Vdc;

*7:FS=full scale,Vdc=400Vdc;Idc=3A;P=375W;