

IT-M3900D

High power DC power supply



Your Power Testing Solution

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IT-M3900 series integrates the features of a DC power supply, a bi-directional power supply, a source and load system, and a regenerative electronic load in one. It keeps the advantages of high power density and architecture design of M series, power up to 6kw, current up to 510A, and voltage up to 1500V within one 1U unit, effectively reducing the equipment occupation space and cabinet time. wide-range models could meet different test requirements while matching with multi-functional, high energy-saving, high-safety, and high-stability product design, let the customer be confident to face a variety of complex testing, improving the products competition ability.

The IT-M3900D series is a single channel output programmable DC power supply. The density structure design can effectively save rack space. Also with wide-range output design, can provide a wider range of voltage and current combinations within the specified power range. One unit can be used as multiple power supplies, more flexibility. The CC/CV priority allows user to switch the output mode according to the different needs of the DUT priority, match with the high-precision and high-speed product characteristics, and a variety of standard communication interfaces, simplifying and speeding up the test development, can meet users' variety testing application, widely used in laboratories, production lines, and automatic test systems.

FEATURE

- Compact design ,power up to 6kW in 1U space, power up to 12kW in 2U space
- Voltage range: 10-1500V
- Current range: 8A~1020A
- Power range: 1700W~12kW
- Wide range of output design, one unit can be used as multiple power supplies
- With simple master/slave parallel connection, expand power while maintaining performance*1
- CC/CV priority
- Adjustable output impedance
- Built-in function generator, support arbitrary-waveform generating
- List function, up to 200 steps can be set
- Support multiple working modes, adjustable rise and fall time
The front panel supports the insertion of USB storage devices to meet the import of List files/Export, data logging functions, etc.
- Standard build-in USB/CAN/LAN/digital IO communication interface, optional GPIB/analog & RS232

*1 If 1U models>16, 2U models>8, pls. contact ITECH.

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| | Model | Current | Power | Size |
|-----|-------------------|---------|--------|------|
| 10V | IT-M3901D-10-170 | 170A | 1700W | 1U |
| | IT-M3903D-10-340 | 340A | 3400W | 1U |
| | IT-M3905D-10-510 | 510A | 5100W | 1U |
| | IT-M3910D-10-1020 | 1020A | 10200W | 2U |

| | Model | Current | Power | Size |
|-----|------------------|---------|-------|------|
| 32V | IT-M3902D-32-80 | 80A | 2kW | 1U |
| | IT-M3904D-32-160 | 160A | 4kW | 1U |
| | IT-M3906D-32-240 | 240A | 6kW | 1U |
| | IT-M3912D-32-480 | 480A | 12kW | 2U |

| | Model | Current | Power | Size |
|-----|------------------|---------|-------|------|
| 80V | IT-M3902D-80-40 | 40A | 2kW | 1U |
| | IT-M3904D-80-80 | 80A | 4kW | 1U |
| | IT-M3906D-80-120 | 120A | 6kW | 1U |
| | IT-M3912D-80-240 | 240A | 12kW | 2U |

| | Model | Current | Power | Size |
|------|-------------------|---------|-------|------|
| 300V | IT-M3902D-300-20 | 20A | 2kW | 1U |
| | IT-M3904D-300-40 | 40A | 4kW | 1U |
| | IT-M3906D-300-60 | 60A | 6kW | 1U |
| | IT-M3912D-300-120 | 120A | 12kW | 2U |

| | Model | Current | Power | Size |
|------|------------------|---------|-------|------|
| 500V | IT-M3902D-500-12 | 12A | 2kW | 1U |
| | IT-M3904D-500-24 | 24A | 4kW | 1U |
| | IT-M3906D-500-36 | 36A | 6kW | 1U |
| | IT-M3912D-500-72 | 72A | 12kW | 2U |

| | Model | Current | Power | Size |
|------|------------------|---------|-------|------|
| 800V | IT-M3902D-800-8 | 8A | 2kW | 1U |
| | IT-M3904D-800-16 | 16A | 4kW | 1U |
| | IT-M3906D-800-24 | 24A | 6kW | 1U |
| | IT-M3912D-800-48 | 48A | 12kW | 2U |

| | Model | Current | Power | Size |
|-------|-------------------|---------|-------|------|
| 1500V | IT-M3906D-1500-12 | 12A | 6kW | 1U |
| | IT-M3912D-1500-24 | 24A | 12kW | 2U |

*This information is subject to change without notice.

Application

Electrolytic plating

Water treatment, surface coating, plating

5G Communications & Data Centre

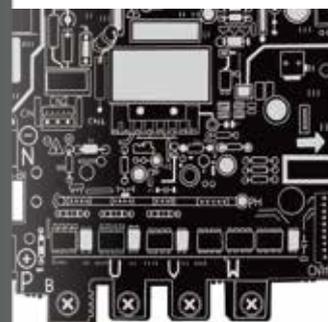
Server power supply, UPS inverter unit

Semiconductor field

Ion injection, MOCVD power supply

Industrial component

Fuses, automotive connector, current sensor



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High power density, compact design

ITECH has always adhered to the design concept of high power density to help users optimize the test solutions. The IT-M3900D series adopts a compact structure design to effectively save rack space, and provide up to 6kW power output in a 1U chassis, up to 12kW power output in a 2U chassis, which makes the entire portfolio of ITECH high power density series more complete and comprehensive.



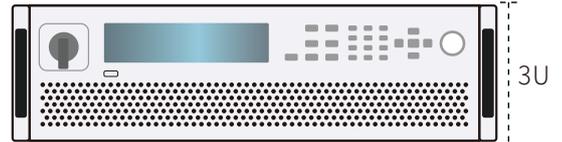
Reduced volume by 2/3



IT-3900D series

V/S

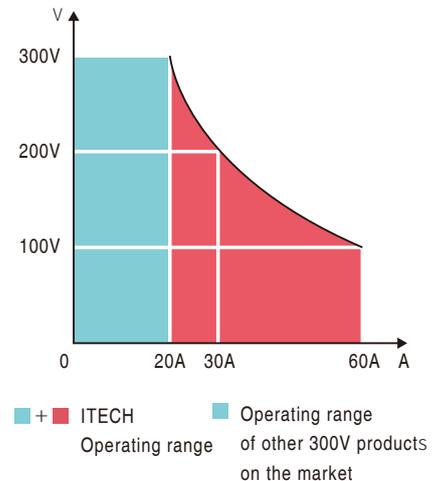
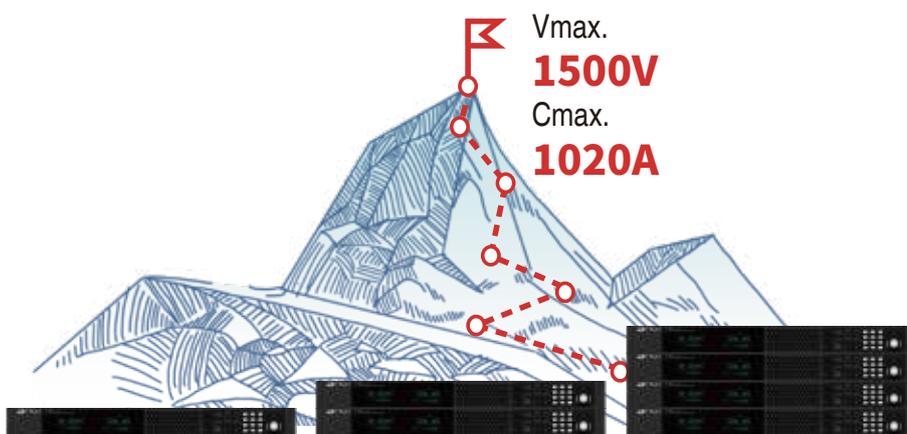
Testing solution for 6kW



Other power supplies

Wide range output

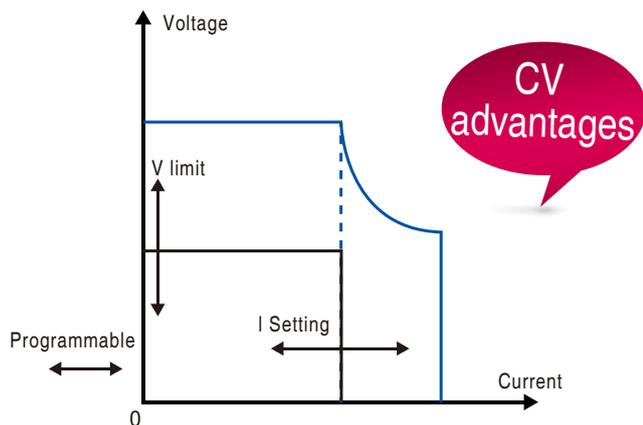
There are 25 models included in IT-M3900D series. The output voltage ranges from 10V to 1500V and the maximum output current of a single unit can reach 1020A. The wide-range output design provides more voltage and current combinations than conventional fixed-range output DC power supplies, which is more flexible. Just a single unit can cover a wide range of applications which makes it easy to build power systems and largely save room for you at the same time.



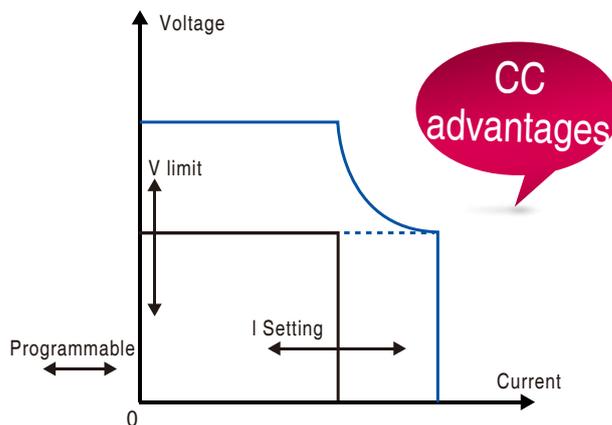
03 IT-M3900D High power DC power supply

CC&CV priority function

CC/CV priority can continue to help users solve various severe problems in long-term test applications to make applications that require high-speed power or non-overshoot more flexible. The CC&CV priority function of IT-M3900D allows the user to select the response speed and the loop working mode of the CC/CV loop to determine whether the output is high-speed voltage mode or non-overshoot current mode, which is suitable for high-power integrated circuit testing, charging and discharging testing, power transient simulation and characterization of automotive electronics, etc.



Start surge current over current range to build voltage at high speed
(CV-High, CC-Low, CV advantages)



High-speed and seamless battery charging and discharging, no overshoot switching
(CV-High, CC-High, CC advantages)

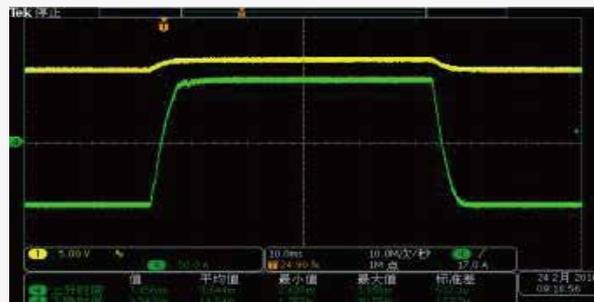
Applications

Diode, laser diode, LED, power semiconductor component testing

When facing a diode load, users can easily set the CC priority mode test in the menu. Advantages: The conventional power supply defaults to the CV loop priority, Therefore, the speed of suppressing the current overshoot at the moment of starting is slower. The CC/CV priority allows users to adjust the loop speed according to test requirements, such as setting it in CC priority mode to avoid output overshoot.



Diode load
Conventional power test



Diode load
IT-M3900D CC priority mode

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High efficiency parallel connection technology

Considering the user's convenience and versatility, IT-M3900D can use master/slave control mode to parallel 16 units or more. Meanwhile ITECH fiber optic parallel technology fully solve the problems of slow speed and poor accuracy of traditional parallel methods. It is suitable for calibration and measurement, R&D lab, production line and ATE test.

Excellent performance after parallel operation

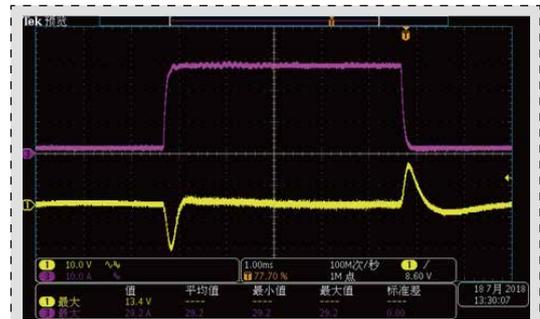
Calibration is not requested after parallel connection

Optical fiber transfer between master and slave, guarantee perfect performance of anti-interference

Adopt Optical fiber isolation technology, effective protection of the device and DUT



Single Unit



Parallel unit

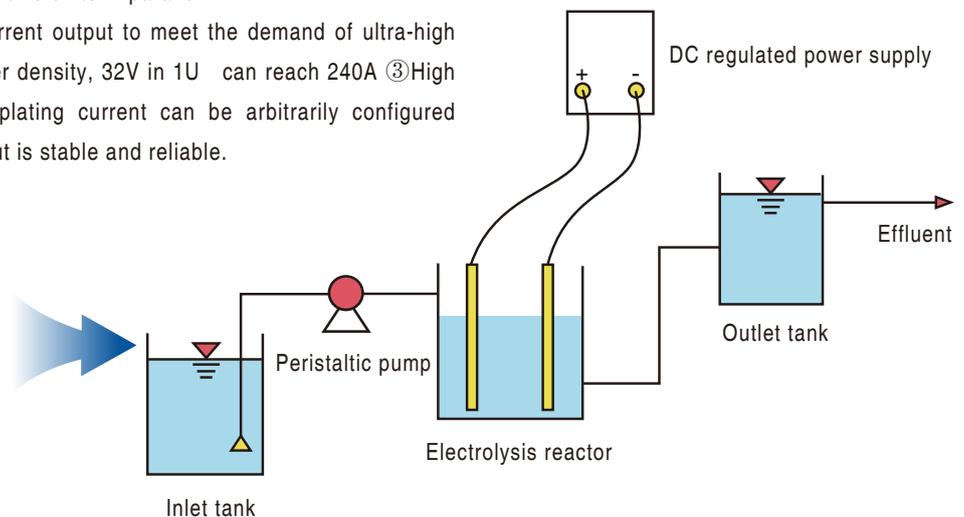


Applications

Electrolytic plating, Sewage treatment, Surface coating, Sputtering, Hydrogen production from electrolytic water

Recommendation: :IT-M3906D-32-240 *5 units in parallel

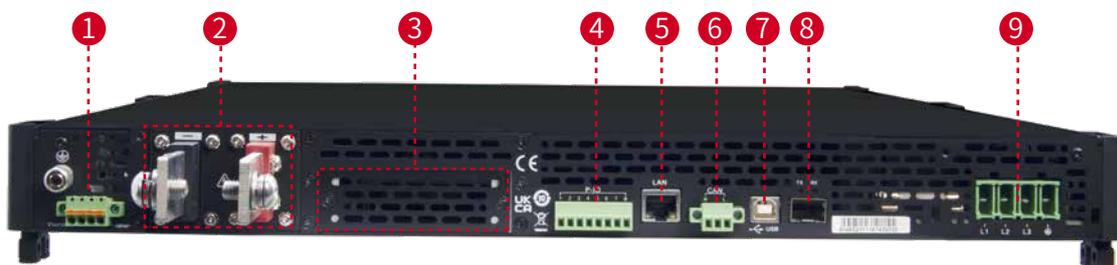
Advantages: ① low voltage high current output to meet the demand of ultra-high current test; ② small size high power density, 32V in 1U can reach 240A ③ High accuracy of current output, electroplating current can be arbitrarily configured according to requirements. The output is stable and reliable.

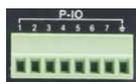


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Multiple interfaces



| | | | | |
|---------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| <p>1 Sense terminals (Vs+, Vs-)</p>  | <p>2 DC output terminals of the power supply</p>  | <p>3 Interface for optional accessories</p>  | <p>4 Digital I/O interface: P-IO</p>  | <p>5 LAN Communication Interface</p>  |
| <p>6 CAN Communication Interface</p>  | <p>7 USB Communication Interface</p>  | <p>8 Communication interface of outer ring optical fiber (TX and RX)</p>  | <p>9 AC power input terminals (L1, L2, L3, and PE)</p>  | |

Optional Accessories

| Category | Model | Specification | Description |
|-------------------|-----------------|-----------------------------------------|-------------------------------------------------------------|
| Parallel kit | IT-E510-15U | 15U unit, grey | 800mm X 550mm X907.64mm |
| | IT-E511-15U | 15U unit, black | 800mm X 550mm X907.64mm |
| | IT-E510-27U | 27U unit, grey | 800mm X 600mmX 1441.41mm |
| | IT-E511-27U | 27U unit, black | 800mm X 600mmX 1441.41mm |
| | IT-E510-37U | 37U unit, grey | 800mm X 600mm X 1885.91mm |
| | IT-E511-37U | 37U unit, black | 800mm X 600mm X 1885.91mm |
| | IT-E168 | Optical fiber cable kit | Used for parallel connection between the units in a cabinet |
| Functional Module | IT-E165A-250 *1 | Anti-reverse protection unit 750V/250A | Avoid reverse connection |
| | IT-E165A-400 *1 | Anti-reverse protection unit 750V/400A | Avoid reverse connection |
| | IT-E165A-500 *1 | Anti-reverse protection unit 900V/400A | Avoid reverse connection |
| | IT-E165B *2 | Anti-EMF unit1200V/200A | Avoid current back flow |
| Other accessories | IT-E258 | 5m power cord for 3U unit, CN standard | AC input power cord |
| | IT-E258-15U | 5m power cord for 15U unit, CN standard | AC input power cord |
| | IT-E258-27U | 5m power cord for 27U unit, CN standard | AC input power cord |
| | IT-E258-37U | 5m power cord for 37U unit, CN standard | AC input power cord |
| | IT-E176 | GPIB communication interface | |
| | IT-E177 | RS232&analog communication card | |



IT-E511-15U

*1 The voltage/current of the DUT must be within the IT-E165A rated range

*2 The voltage/current of the DUT must be within the IT-E165B rated range

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Specification

| | | IT-M3905D-10-510 | IT-M3906D-32-240 |
|----------------------------------------|--------------------------------------|------------------------------|------------------------------|
| Rated value | Voltage | 0~10V | 0~32V |
| | Current | 0~510A | 0~240A |
| | Power | 0~5100W | 0~6000W |
| | Series resistance (CV priority mode) | 0~0.01Ω | 0~0.06Ω |
| Setup Resolution | Voltage | 0.001V | 0.001V |
| | Current | 0.1A | 0.01A |
| | Power | 1W | 1W |
| | Series resistance (CV priority mode) | 0.001Ω | 0.001Ω |
| Readback Resolution | Voltage | 0.001V | 0.001V |
| | Current | 0.1A | 0.01A |
| | Power | 1W | 1W |
| Setup Accuracy | Voltage | ≤0.05% + 0.05%FS | ≤0.05% + 0.05%FS |
| | Current | ≤0.1% + 0.1%FS | ≤0.1% + 0.1%FS |
| | Power | ≤0.5% + 0.5%FS | ≤0.5% + 0.5%FS |
| | Series resistance (CV priority mode) | ≤1%FS | ≤1%FS |
| Readback Accuracy | Voltage | ≤0.05% + 0.05%FS | ≤0.05% + 0.05%FS |
| | Current | ≤0.1% + 0.1%FS | ≤0.1% + 0.1%FS |
| | Power | ≤0.5% + 0.5%FS | ≤0.5% + 0.5%FS |
| Ripple *1 | Voltage peak value | ≤65mVpp | ≤80mVpp |
| | Voltage RMS | ≤10mV | ≤30mV |
| Input Drift Temperature Coefficient | Voltage | ≤30ppm/°C | ≤30ppm/°C |
| | Current | ≤50ppm/°C | ≤50ppm/°C |
| Readback Drift Temperature Coefficient | Voltage | ≤30ppm/°C | ≤30ppm/°C |
| | Current | ≤50ppm/°C | ≤50ppm/°C |
| Rising Time (no load) | Voltage | ≤50ms | ≤30ms |
| Rising Time (full load) | Voltage | ≤100ms | ≤100ms |
| Falling Time (no load) | Voltage | ≤1s | ≤1s |
| Falling Time (full load) | Voltage | ≤100ms | ≤100ms |
| Power Regulation Rate | Voltage | ≤0.01% + 0.01%FS | ≤0.01% + 0.01%FS |
| | Current | ≤0.03% + 0.03%FS | ≤0.03% + 0.03%FS |
| Load Regulation Rate | Voltage | 0.0035%*1 + 0.05%FS | ≤0.02% + 0.02%FS |
| | Current | ≤0.05% + 0.05%FS | ≤0.05% + 0.05%FS |
| Input Protection Scope | OCP | 525A | 247.2A |
| | OVP | 10.5V | 33V |
| | OPP | 5202W | 6120W |
| Remote Sense Compensation Voltage | | ≤2V | ≤10V |
| AC Input *2 | Voltage | 3φ 200V~480V 1φ 100V~240V | 3φ 200V~480V 1φ 100V~240V |
| | Frequency | 50/60Hz | 50/60Hz |
| Max. AC Apparent Power | | 5.55kVA | 6.5kVA |
| Max. AC Current | | 12.5Aac | 12.5Aac |
| Max. Efficiency | | 89% | 90% |
| Power Factor | | 0.99 | 0.99 |
| DC Component | | ≤0.2A | ≤0.2A |
| Current Harmonic | | ≤3% | ≤3% |
| Programming Response Time | | 0.1ms | 0.1ms |
| Withstand Voltage (DC to ground) | | 200Vdc | 200Vdc |
| Withstand Voltage (AC to ground) | | 2100Vdc | 2100Vdc |

*1 The ripple is got under three-phase AC input

* This information is subject to change without notice.

*2 The AC will be limited to 12.5Aac. When the AC input is low, power will be limited. E.g:

Three-phase input, line voltage 200Vac, the power is: $P=200\text{Vac} \times 12.5\text{Aac} \times 1.732=4330\text{VA}$

Single-phase input, phase voltage 200Vac, the power is: $P=200\text{Vac} \times 12.5\text{Aac}=2500\text{VA}$

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Specification

| | | IT-M3906D-80-120 | IT-M3906D-300-60 |
|----------------------------------------|--------------------------------------|----------------------------------|----------------------------------|
| Rated value | Voltage | 0 ~ 80V | 0 ~ 300V |
| | Current | 0 ~ 120A | 0 ~ 60A |
| | Power | 0 ~ 6000W | 0 ~ 6000W |
| | Series resistance (CV priority mode) | 0 ~ 0.3Ω | 0 ~ 0.5Ω |
| Setup Resolution | Voltage | 0.001V | 0.01V |
| | Current | 0.01A | 0.001A |
| | Power | 1W | 1W |
| | Series resistance (CV priority mode) | 0.001Ω | 0.001Ω |
| Readback Resolution | Voltage | 0.001V | 0.01V |
| | Current | 0.01A | 0.001A |
| | Power | 1W | 1W |
| Setup Accuracy | Voltage | ≤ 0.03% + 0.03%FS | ≤ 0.03% + 0.03%FS |
| | Current | ≤ 0.1% + 0.1%FS | ≤ 0.1% + 0.1%FS |
| | Power | ≤ 0.5% + 0.5%FS | ≤ 0.5% + 0.5%FS |
| | Series resistance (CV priority mode) | ≤ 1%FS | ≤ 1%FS |
| Readback Accuracy | Voltage | ≤ 0.03% + 0.03%FS | ≤ 0.03% + 0.03%FS |
| | Current | ≤ 0.1% + 0.1%FS | ≤ 0.1% + 0.1%FS |
| | Power | ≤ 0.5% + 0.5%FS | ≤ 0.5% + 0.5%FS |
| Ripple *1 | Voltage peak value | ≤ 200mVpp | ≤ 300mVpp |
| | Voltage RMS | ≤ 80mV | ≤ 60mV |
| Input Drift Temperature Coefficient | Voltage | ≤ 30ppm/°C | ≤ 30ppm/°C |
| | Current | ≤ 50ppm/°C | ≤ 50ppm/°C |
| Readback Drift Temperature Coefficient | Voltage | ≤ 30ppm/°C | ≤ 30ppm/°C |
| | Current | ≤ 50ppm/°C | ≤ 50ppm/°C |
| Rising Time (no load) | Voltage | ≤ 15ms | ≤ 30ms |
| Rising Time (full load) | Voltage | ≤ 30ms | ≤ 60ms |
| Falling Time (no load) | Voltage | ≤ 1s | ≤ 1s |
| Falling Time (full load) | Voltage | ≤ 100ms | ≤ 100ms |
| Power Regulation Rate | Voltage | ≤ 0.01% + 0.01%FS | ≤ 0.01% + 0.01%FS |
| | Current | ≤ 0.03% + 0.03%FS | ≤ 0.03% + 0.03%FS |
| Load Regulation Rate | Voltage | ≤ 0.01% + 0.01%FS | ≤ 0.01% + 0.01%FS |
| | Current | ≤ 0.05% + 0.05%FS | ≤ 0.05% + 0.05%FS |
| Input Protection Scope | OCP | 126A | 63A |
| | OVP | 82V | 303V |
| | OPP | 6120W | 6120W |
| Remote Sense Compensation Voltage | | ≤ 8V | ≤ 10V |
| AC Input *2 | Voltage | 3φ 200V ~ 480V 1φ 100V ~ 240V | 3φ 200V ~ 480V 1φ 100V ~ 240V |
| | Frequency | 50/60Hz | 50/60Hz |
| Max. AC Apparent Power | | 6.5kVA | 6.5kVA |
| Max. AC Current | | 12.5Aac | 12.5Aac |
| Max. Efficiency | | 92% | 93% |
| Power Factor | | 0.99 | 0.99 |
| DC Component | | ≤ 0.2A | ≤ 0.2A |
| Current Harmonic | | ≤ 3% | ≤ 3% |
| Programming Response Time | | 0.1ms | 0.1ms |
| Withstand Voltage (DC to ground) | | 500Vdc | 600Vdc |
| Withstand Voltage (AC to ground) | | 2100Vdc | 2100Vdc |

*1 The ripple is got under three-phase AC input

*2 The AC will be limited to 12.5Aac. When the AC input is low, power will be limited. E.g:

* This information is subject to change without notice.

Three-phase input, line voltage 200Vac, the power is: $P=200Vac \times 12.5Aac \times 1.732=4330VA$
Single-phase input, phase voltage 200Vac, the power is: $P=200Vac \times 12.5Aac=2500VA$

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Specification

| | | IT-M3906D-500-36 | IT-M3906D-800-24 |
|----------------------------------------|--------------------------------------|------------------------------|------------------------------|
| Rated value | Voltage | 0~500V | 0~800V |
| | Current | 0~36A | 0~24A |
| | Power | 0~6000W | 0~6000W |
| | Series resistance (CV priority mode) | 0~0.7Ω | 0~1Ω |
| Setup Resolution | Voltage | 0.01V | 0.01V |
| | Current | 0.001A | 0.001A |
| | Power | 1W | 1W |
| | Series resistance (CV priority mode) | 0.01Ω | 0.001Ω |
| Readback Resolution | Voltage | 0.01V | 0.01V |
| | Current | 0.001A | 0.001A |
| | Power | 1W | 1W |
| Setup Accuracy | Voltage | ≤0.03% + 0.03%FS | ≤0.03% + 0.03%FS |
| | Current | ≤0.1% + 0.1%FS | ≤0.1% + 0.1%FS |
| | Power | ≤0.5% + 0.5%FS | ≤0.5% + 0.5%FS |
| | Series resistance (CV priority mode) | ≤1%FS | ≤1%FS |
| Readback Accuracy | Voltage | ≤0.03% + 0.03%FS | ≤0.03% + 0.03%FS |
| | Current | ≤0.1% + 0.1%FS | ≤0.1% + 0.1%FS |
| | Power | ≤0.5% + 0.5%FS | ≤0.5% + 0.5%FS |
| Ripple *1 | Voltage peak value | ≤500mVpp | ≤1000mVpp |
| | Voltage RMS | ≤100mV | ≤160mV |
| Input Drift Temperature Coefficient | Voltage | ≤30ppm/°C | ≤30ppm/°C |
| | Current | ≤50ppm/°C | ≤50ppm/°C |
| Readback Drift Temperature Coefficient | Voltage | ≤30ppm/°C | ≤30ppm/°C |
| | Current | ≤50ppm/°C | ≤50ppm/°C |
| Rising Time (no load) | Voltage | ≤30ms | ≤30ms |
| Rising Time (full load) | Voltage | ≤60ms | ≤60ms |
| Falling Time (no load) | Voltage | ≤1s | ≤1s |
| Falling Time (full load) | Voltage | ≤100ms | ≤100ms |
| Power Regulation Rate | Voltage | ≤0.01% + 0.01%FS | ≤0.01% + 0.01%FS |
| | Current | ≤0.03% + 0.03%FS | ≤0.03% + 0.03%FS |
| Load Regulation Rate | Voltage | ≤0.01% + 0.01%FS | ≤0.01% + 0.01%FS |
| | Current | ≤0.05% + 0.05%FS | ≤0.05% + 0.05%FS |
| Input Protection Scope | OCP | 37.5A | 25.2A |
| | OVP | 505V | 808V |
| | OPP | 6120W | 6120W |
| Remote Sense Compensation Voltage | | ≤10V | ≤16V |
| AC Input *2 | Voltage | 3φ 200V~480V 1φ 100V~240V | 3φ 200V~480V 1φ 100V~240V |
| | Frequency | 50/60Hz | 50/60Hz |
| Max. AC Apparent Power | | 6.5kVA | 6.5kVA |
| Max. AC Current | | 12.5Aac | 12.5Aac |
| Max. Efficiency | | 93% | 93% |
| Power Factor | | 0.99 | 0.99 |
| DC Component | | ≤0.2A | ≤0.2A |
| Current Harmonic | | ≤3% | ≤3% |
| Programming Response Time | | 0.1ms | 0.1ms |
| Withstand Voltage (DC to ground) | | 1000Vdc | 1600Vdc |
| Withstand Voltage (AC to ground) | | 2100Vdc | 2100Vdc |

*1 The ripple is got under three-phase AC input

* This information is subject to change without notice.

*2 The AC will be limited to 12.5Aac. When the AC input is low, power will be limited. E.g:

Three-phase input, line voltage 200Vac, the power is: $P=200\text{Vac} \times 12.5\text{Aac} \times 1.732=4330\text{VA}$

Single-phase input, phase voltage 200Vac, the power is: $P=200\text{Vac} \times 12.5\text{Aac}=2500\text{VA}$

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IT-M3900D High power DC power supply

Specification

| IT-M3906D-1500-12 | | |
|----------------------------------------|--------------------------------------|------------------------------|
| Rated value | Voltage | 0~1500V |
| | Current | 0~12A |
| | Power | 0~6000W |
| | Series resistance (CV priority mode) | 0~1Ω |
| Setup Resolution | Voltage | 0.01V |
| | Current | 0.001A |
| | Power | 1W |
| | Series resistance (CV priority mode) | 0.001Ω |
| Readback Resolution | Voltage | 0.01V |
| | Current | 0.001A |
| | Power | 1W |
| Setup Accuracy | Voltage | ≤ 0.03% + 0.03%FS |
| | Current | ≤ 0.1% + 0.1%FS |
| | Power | ≤ 0.5% + 0.5%FS |
| | Series resistance (CV priority mode) | ≤ 1%FS |
| Readback Accuracy | Voltage | ≤ 0.03% + 0.03%FS |
| | Current | ≤ 0.1% + 0.1%FS |
| | Power | ≤ 0.5% + 0.5%FS |
| Ripple *1 | Voltage peak value | ≤ 1500mVpp |
| | Voltage RMS | ≤ 300mV |
| Input Drift Temperature Coefficient | Voltage | ≤ 30ppm/°C |
| | Current | ≤ 50ppm/°C |
| Readback Drift Temperature Coefficient | Voltage | ≤ 30ppm/°C |
| | Current | ≤ 50ppm/°C |
| Rising Time (no load) | Voltage | ≤ 30ms |
| Rising Time (full load) | Voltage | ≤ 60ms |
| Falling Time (no load) | Voltage | ≤ 1s |
| Falling Time (full load) | Voltage | ≤ 100ms |
| Power Regulation Rate | Voltage | ≤ 0.01% + 0.01%FS |
| | Current | ≤ 0.03% + 0.03%FS |
| Load Regulation Rate | Voltage | ≤ 0.01% + 0.01%FS |
| | Current | ≤ 0.05% + 0.05%FS |
| Input Protection Scope | OCP | 12.5A |
| | OVP | 1515V |
| | OPP | 6120W |
| Remote Sense Compensation Voltage | | ≤ 30V |
| AC Input *2 | Voltage | 3φ 200V~480V 1φ 100V~240V |
| | Frequency | 50/60Hz |
| Max. AC Apparent Power | | 6.5kVA |
| Max. AC Current | | 12.5Aac |
| Max. Efficiency | | 93% |
| Power Factor | | 0.99 |
| DC Component | | ≤ 0.2A |
| Current Harmonic | | ≤ 3% |
| Programming Response Time | | 0.1ms |
| Withstand Voltage (DC to ground) | | 2500Vdc |
| Withstand Voltage (AC to ground) | | 2100Vdc |

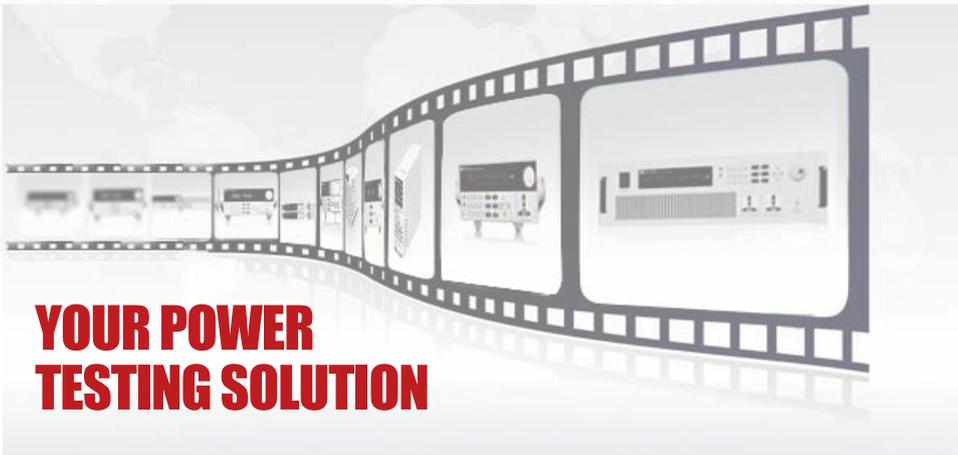
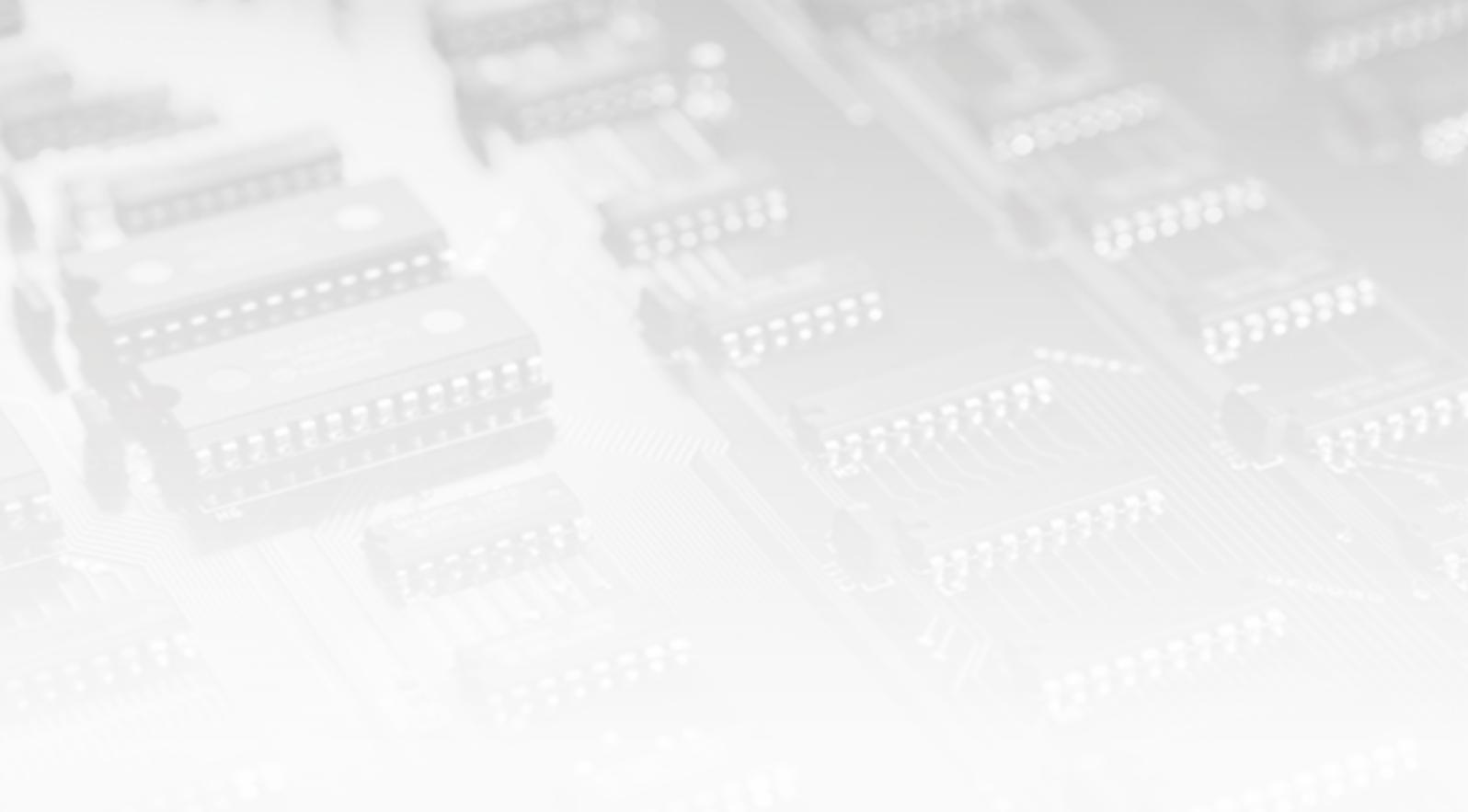
*1 The ripple is got under three-phase AC input

* This information is subject to change without notice.

*2 The AC will be limited to 12.5Aac. When the AC input is low, power will be limited. E.g:

Three-phase input, line voltage 200Vac, the power is: $P=200\text{Vac} \times 12.5\text{Aac} \times 1.732=4330\text{VA}$

Single-phase input, phase voltage 200Vac, the power is: $P=200\text{Vac} \times 12.5\text{Aac}=2500\text{VA}$



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