



IT-M3400 Bidirectional DC Power Supply

APPLICATIONS

- Civil / military low-power power module testing
- Power supply testing of automotive electronic equipment Intelligent industry equipment testing
 - Your Power Testing Solution



Bidirectional



IT-M3400 bidirectional DC power supply integrates the features of a bidirectional power supply and a regenerative load. It keeps the advantages of high power density and modular architecture design of M series.

It can meet the customer's test requirement of different current and power level. Thanks to the independent multi-channel design, users can configure each channel according to the quantity and specifications of the DUT. At the same time, it has high-precision output and measurement, and has made a number of safety designs for testing, suitable for multiple test fields, such as power modules, intelligent industrial equipment, automotive electronics, charging and discharging tests of various small-capacity batteries.

FEATURE

- 1U Half-rack, high power density
- Bidirectional energy flow
- High efficient power regeneration
- Battery test
- Battery simulation
- Independent control of multi-channels with functions of synchronization and proportional tracking
- Up to 16 units can be paralleled connected
- High speed measurement, 10 times/S updating rate
- CC/CV priority
- Adjustable output impedance
- Programmable voltage and current rise and fall time

- Temperature measurement function, over temperature protection
- List
- Various protection such as OCP / UCP / OVP / OTP / OPP / UVP over heat protection, grid fault protection and fault storage, foldback, Power-off protection, sense abnormal protection
- Automatic detection of power grid state to realize reliable grid connection
- Pre charge function to prevent overshoot of DC loading current
- Anti-reverse protection function through optional accessories
- Five optional cards, supporting RS232,CAN,LAN,GPIB,US-B_TMC,USB_VCP, RS485, analog and IO communication

Model	Voltage	Current	Power	Model	Voltage	Current	Power
IT-M3412	60V	30A	200W	IT-M3414	300V	6A	200W
IT-M3422	60V	30A	400W	IT-M3424	300V	6A	400W
IT-M3432	60V	30A	800W	IT-M3434	300V	6A	800W
IT-M3413	150V	12A	200W	IT-M3415	600V	ЗA	200W
IT-M3423	150V	12A	400W	IT-M3425	600V	ЗA	400W
IT-M3433	150V	12A	800W	IT-M3435	600V	ЗA	800W

IT-M3400 bidirectional DC power supply

Seamless switching between source and sink

Different from the traditional power supply and load, when positive and negative current switch, there will be a short jump and Incoherence. IT-M3400 integrates bidirectional power supply and regenerative e-load in one, which is capable of achieving high-speed and seamless switching between source and sink. In this way, a fast and seamless switch between source and sink effectively avoids voltage or current overshoot, which is widely used in batteries, battery packaging, battery protection boards and other energy storage equipment testing.

1U Half-rack mini size

IT-M3400 is 1U Half-rack mini size and support output up to 800W, not only with high power density, but also with high resolution, high precision and high stability. The output voltage can reach 600V and the output current can reach 30A. There are 12 models in the whole series, with a wide range of output design, and one unit can cover a wide range of applications.

Applications





CC priority charge and discharge seamless switching



IT-M3400 bidirectional DC power supply

CC & CV priority function

IT-M3400 continues to support CC / CV priority function, help customers solve a variety of severe problems in long-term testing. For test that require high-speed voltage, users can select the CV priority mode to obtain a faster voltage climb speed; or choose CC priority mode, output current without overshoot, used to test DUT with constant current operating characteristics. This function is widely used in power supply transient simulation and characterization test applications, such as lasers, integrated circuits, charge and discharge, military and automotive electronics.



Module architecture, any combination

IT-M3400's modular plug-in architecture can easily stack instruments like building blocks without any additional accessories. Besides that, users can choose IT-E154 rack installation kit, easily install one or more instruments in a standard 19-inch cabinet.



IT-M3400 bidirectional DC power supply

Multi-channel independent control, up to 256 channel

IT-M3400 provides flexible multi-channel function, the users can build-up multi-channel source-sink system, each unit will show the channel number on the front panel. PC only need to connect with one unit to control and program all the units independently by GUI software.

IT-M3400 support maximum 16*16 channels, each 37U rack can integrate 64 units which is 64 channels. It supports parallel connection for high power testing demands, to provide high flexibility and functionality for users.



Parallel function

IT-M3400 support multiple units of same models connected in parallel, to build a high current and high power system. The users can parallel max. 16 units by master-slave mode, to meet different testing requests.



IT-M3400 bidirectional DC power supply

High energy regeneration efficiency

IT-M3400 supports energy regeneration function, the efficiency is up to 90%, which save cost both for the electricity and cooling system, create low noise testing environment.



Battery simulation function

IT-M3400 can simulate up to 99 batteries in series and parallel. The user can set the battery voltage, capacity, internal resistance, and SOC to quickly define the battery matrix.

The user can set the battery by choosing ITECH optional professional BSS2000 battery simulation software, by setting common battery parameters to quickly establish the battery characteristic curve, they can also set the initial capacity of the battery, to verify the characteristics of the product in different states of the battery. At the same time, BSS2000 supports user to import matlab battery matrix or import the actual battery charge and discharge curve through .CSV file, to simulate real battery's charge and discharge characteristics.

*Please contact ITECH for further details.

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BSS2000 battery emulation software interface

Battery Test Function

IT-M3400 series Regenerative Power System, which integrates power supply and regenerative electronic load one unit, and adjustable output impedance design, can simulate the charging and discharging characteristics of the battery, and perform other testing, too. It can be used not only test the multiple single cells, but also comprehensive test the battery packages. It can also perform the battery setting and data processing in various test conditions and plot the test figure.

Optional ITS5300 professional battery test software can perform the following test items:

- working condition simulation
 - imulation Relia
- Battery DC IR Test
- Battery endurance test
- Battery Temperture Test
- Reliability Test
- Charge and Discharge characteristic
- Battery cycle life test
- Battery capacity test
 Over charge and Over discharge endurance test
- Battery conformity test



IT-M3400 bidirectional DC power supply

Multi-Protection Function

IT-M3400 have various protection functions such as OCP / UCP / OVP / OTP / OPP / UVP, power grid fault protection and fault storage functions, as well as power-off protection and Sense sensing abnormal protection.

The unique Foldback protection function is used to turn off the output when the power CV / CC is switched, so as to protect DUT that are sensitive to voltage overshoot and current overshoot.

The automatic detection function of power grid state will shut down the product in case of sudden disconnection of power grid connection, which can realize reliable grid connection function and islanding protection function.

Precharge function can prevent DC loaded current from overshoot. Users can choose anti reverse connection module to realize anti reverse connection protection function to effectively suppress battery surge.



Optional Accessories

IT-M3400 rear panel provides interface expansion slot for users to expand. Different interfaces can be selected to realize different functions, such as communication interface, external analog interface, temperature sensor, etc.

Pictures	Model	Interface	Pictures	Model	Interface
	IT-E1205	GPIB interface		IT-E1209	USB interface
	IT-E1206	USB/LAN interface		IT-E118	Anti-reverse connection module
	IT-E1207	RS-232/CAN interface		IT-E1203	Temperature sensor
	IT-E1208	External analog/RS485 interface		IT-E154A/B/C	Rack mount kit







Rear Panel with optional interface

Your Power Testing Solution IT-M3400 bidirectional DC power supply

Specification

		IT-M3412	IT-M3413	IT-M3414
	Output Voltage	0~60V	0~150V	0~300V
Rated Output Value	Output Current	-30A~30A	-12A~12A	-6A~6A
(0 °C-40 °C)	Output Power	-200W~200W	-800W~800W	-200W~200W
	Current Range	-30A~30A	-12A~12A	-6A~6A
CC Mode	Resolution	10mA	1mA	1mA
	Accuracy	<0.1% Imax+0.1%Icurrent	<0.1% Imax+0.1%Icurrent	<0.1% Imax+0.1%Icurrent
	Voltage Range	0~60V	0~150V	0~300V
CV Mode	Resolution	1mV	10mV	10mV
	Accuracy	<0.1% Umax	<0.1% Umax	<0.1% Umax
Desistance	Resistance Range	0~1000mΩ	0~1000mΩ	0~1000mΩ
Programming	Resolution	0.1mΩ	0.1mΩ	0.1mΩ
(Sourcing)	Accuracy	2%*Rmax	2%*Rmax	2%*Rmax
	Power Range	-200W~200W	-800W~800W	-200W~200W
CP Mode	Resolution	0.1W	0.1W	0.1W
	Accuracy	<1.0% Pmax	<1.0% Pmax	<1.0% Pmax
	Range	-30A~30A	-12A~12A	-6A~6A
Current Readback	Resolution	1mA	1mA	1mA
	Accuracy	<0.1% Imax+0.1%Icurrent	<0.1% Imax+0.1%Icurrent	<0.1% Imax+0.1%Icurrent
	Range	0~60V	0~150V	0~300V
Voltage Readback	Resolution	1mV	10mV	10mV
	Accuracy	<0.1% Umax	<0.1% Umax	<0.1% Umax
	Range	-200W~200W	-800W~800W	-200W~200W
Power Readback	Resolution	0.1W	0.1W	0.1W
	Accuracy	<1% Pmax	<1% Pmax	<1% Pmax
	Voltage Resolution	0.001V	0.01V	0.01V
Decelution	Current Resolution	0.01A	0.001A	0.001A
Resolution	Power Resolution	0.1W	0.1W	0.1W
	Resistance Resolution	0.1mΩ	0.1mΩ	0.1mΩ
	Voltage	≤0.05% U _{max}	≤0.05% U _{max}	≤0.05% U _{max}
Load Regulation	Current	≤0.05% Imax	≤0.05% Imax	≤0.05% Imax
	Voltage	≤0.05% U _{max}	≤0.05% U _{max}	≤0.05% U _{max}
Line Regulation	Current	≤0.05% Imax	≤0.05% I _{max}	≤0.05% Imax
Diarda	Voltage	≤ 100mVp-p	≤ 300mVp-p	≤600mVp-p
Кірріе	Current	≤ 30mArms	≤30mArms	≤30mArms
Rise Time	Voltage (No Load)	5ms	20ms	20ms
Rise Time	Voltage (Full Load)	10ms	50ms	50ms
Fall Time	Voltage (No Load)	5ms	20ms	20ms
Fall Time	Voltage (Full Load)	5ms	20ms	20ms
Analog Voltage Pr	ograming	0-10V ref 0-FS	0-10V ref 0-FS	0-10V ref 0-FS
Analog Voltage M	onitoring	0-FS ref analog voltage monitoring 0-10V	0-FS ref analog voltage monitoring 0-10V	0-FS ref analog voltage monitoring 0-10V
Analog Current Programing		Analog voltage programing -10V~10V ref30A~30A	Analog voltage programing -10V~10V ref12A~12A	Analog voltage programing -10V~10V ref6A~6A
Analog Voltage Monitoring		-30A~30A ref Analog voltage programing -10V~10V	-12A~12A ref Analog voltage programing -10V~10V	-6A~6A ref Analog voltage programing -10V~10V
Power Rating	Voltage Range	100VAC~240VAC	100VAC~240VAC	100VAC~240VAC
	Ovp	264VAC	264VAC	264VAC
	Uvp	90VAC	90VAC	90VAC
	Frequency	50Hz~60Hz	50Hz~60Hz	50Hz~60Hz
	Max.input Current	1Aac (AC220)	1Aac (AC220)	1Aac(AC220V)
	Dc Component	-0.1A~+0.1A	-0.1A~+0.1A	-0.1A~+0.1A
Efficiency (Max.)		86%	88%	88%
Dimension (D*W*H	1)	450mm*214mm*43.5mm	450mm*214mm*43.5mm	450mm*214mm*43.5mm
Net Weight		5kg	5kg	5kg

*Load mode resistance accuracy range: lower limit 1/(1/R+(1/R)*0.05+0.004) ; upper limit 1/(1/R-(1/R)*0.05-0.004) *This information is subject to change without notice



Your Power Testing Solution IT-M3400 bidirectional DC power supply

Specification

		IT-M3415	IT- M3422	IT-M3423	
	Output Voltage	0~600V	0~60V	0~150V	
Rated Output Value	Output Current	-3A~3A	-30A~30A	-12A~12A	
(0 °C-40 °C)	Output Power	-200W~200W	-400W~400W	-400W~400W	
	Current Range	-3A~3A	-30A~30A	-12A~12A	
CC Mode	Resolution	1mA	10mA	1mA	
	Accuracy	<0.1% Imax+0.1%Icurrent	<0.1% Imax+0.1%Icurrent	<0.1% Imax+0.1%Icurrent	
	Voltage Range	0~600V	0~60V	0~150V	
CV Mode	Resolution	10mV	1mV	10mV	
	Accuracy	<0.1% Umax	<0.1% Umax	<0.1% Umax	
D	Resistance Range	0~1000mΩ	0~1000mΩ	0~1000mΩ	
Programming	Resolution	0.1mΩ	0.1mΩ	0.1mΩ	
(Sourcing)	Accuracy	2%*Rmax	2%*Rmax	2%*Rmax	
	Power Range	-200W~200W	-400W~400W	-400W~400W	
CP Mode	Resolution	0.1W	0.1W	0.1W	
	Accuracy	<1.0% Pmax	<1.0% Pmax	<1.0% Pmax	
	Range	-3A~3A	-30A~30A	-12A~12A	
Current Readback	Resolution	1mA	1mA	1mA	
	Accuracy	<0.1% Imax+0.1%Icurrent	<0.1% Imax+0.1%Icurrent	<0.1% Imax+0.1%Icurrent	
	Range	0~600V	0~60V	0~150V	
Voltage Readback	Resolution	10mV	1mV	10mV	
-	Accuracy	<0.1% Umax	<0.1% Umax	<0.1% Umax	
	Range	-200W~200W	-400W~400W	-400W~400W	
Power Readback	Resolution	0.1W	0.1W	0.1W	
	Accuracy	<1% Pmax	<1% Pmax	<1% Pmax	
	Voltage Resolution	0.01V	0.001V	0.01V	
D 1 1	Current Resolution	0.001A	0.01A	0.001A	
Resolution	Power Resolution	0.1W	0.1W	0.1W	
	Resistance Resolution	0.1mΩ	0.1mΩ	0.1mΩ	
	Voltage	≤0.05% U _{max}	≤0.05% U _{max}	≤0.05% U _{max}	
Load Regulation	Current	≤0.05% Imax	≤0.05% lmax	≤0.05% Imax	
	Voltage	≤0.05% U _{max}	≤0.05% U _{max}	≤0.05% U _{max}	
Line Regulation	Current	≤0.05% Imax	≤0.05% Imax	≤0.05% Imax	
D : 1	Voltage	≤1200mVp-p	≤100mVp-p	≤300mVp-p	
Кірріе	Current	≤30mArms	≤30mArms	≤ 30mArms	
Rise Time	Voltage (No Load)	30ms	5ms	20ms	
Rise Time	Voltage (Full Load)	60ms	10ms	50ms	
Fall Time	Voltage (No Load)	30ms	5ms	20ms	
Fall Time	Voltage (Full Load)	30ms	5ms	20ms	
Analog Voltage Pr	ograming	0-10V ref 0-FS	0-10V ref 0-FS	0-10V ref 0-FS	
Analog Voltage M	onitoring	0-FS ref analog voltage monitoring 0-10V	0-FS ref analog voltage monitoring 0-10V	0-FS ref analog voltage monitoring 0-10V	
Analog Current Programing		Analog voltage programing -10V~10V ref3A~3A	Analog voltage programing -10V~10V ref30A~30A	Analog voltage programing -10V~10V ref12A~12A	
Analog Voltage Monitoring		-3A~3A ref Analog voltage programing -10V~10V	-30A~30A ref Analog voltage programing -10V~10V	-12A~12A ref Analog voltage programing -10V~10V	
Power Rating	Voltage Range	100VAC~240VAC	100VAC~240VAC	100VAC~240VAC	
	Ovp	264VAC	264VAC	264VAC	
	Uvp	90VAC	90VAC	90VAC	
	Frequency	50Hz~60Hz	50Hz~60Hz	50Hz~60Hz	
	Max.input Current	1Aac(AC220V)	2Aac (AC220V)	2Aac (AC220)	
	Dc Component	-0.1A~+0.1A	-0.1A~+0.1A	-0.1A~+0.1A	
Efficiency (Max.)		88%	86%	88%	
Dimension (D*W*H	1)	450mm*214mm*43.5mm	450mm*214mm*43.5mm	450mm*214mm*43.5mm	
Net Weight		5kg	5kg	5kg	

*Load mode resistance accuracy range: lower limit 1/(1/R+(1/R)*0.05+0.004) ; upper limit 1/(1/R-(1/R)*0.05-0.004)

*This information is subject to change without notice

IT-M3400 bidirectional DC power supply

Specification

		IT-M3424	IT-M3425	IT-M3432	
	Output Voltage	0~300V	0~600V	0~60V	
Rated Output Value	Output Current	-6A~6A	-3A~3A	-30A~30A	
(0 °C-40 °C)	Output Power	-400W~400W	-400W~400W	-800W~800W	
	Current Range	-6A~6A	-3A~3A	-30A~30A	
CC Mode	Resolution	1mA	1mA	10mA	
	Accuracy	<0.1% Imax+0.1%Icurrent	<0.1% Imax+0.1%Icurrent	<0.1% Imax+0.1% Icurrent	
	Voltage Range	0~300V	0~600V	0~60V	
CV Mode	Resolution	10mV	10mV	1mV	
	Accuracy	<0.1% Umax	<0.1% Umax	<0.1% Umax	
Resistance	Resistance Range	0~1000mΩ	0~1000mΩ	0~1000mΩ	
Programming	Resolution	0.1mΩ	0.1mΩ	0.1mΩ	
(Sourcing)	Accuracy	2%*Rmax	2%*Rmax	2%*Rmax	
	Power Range	-400W~400W	-400W~400W	-800W~800W	
CP Mode	Resolution	0.1W	0.1W	0.1W	
	Accuracy	<1.0% Pmax	<1.0% Pmax	<1.0% Pmax	
	Range	-6A~6A	-3A~3A	-30A~30A	
Current Readback	Resolution	1mA	1mA	1mA	
	Accuracy	<0.1% Imax+0.1%Icurrent	<0.1% Imax+0.1%Icurrent	<0.1% Imax+0.1% Icurrent	
	Range	0~300V	0~600V	0~60V	
Voltage Readback	Resolution	10mV	10mV	1mV	
	Accuracy	<0.1% Umax	<0.1% Umax	<0.1% Umax	
	Range	-400W~400W	-400W~400W	-800W~800W	
Power Readback	Resolution	0.1W	0.1W	0.1W	
	Accuracy	<1% Pmax	<1% Pmax	<1% Pmax	
	Voltage Resolution	0.01V	0.01V	0.001V	
Resolution	Current Resolution	0.001A	0.001A	0.01A	
	Power Resolution	0.1W	0.1W	0.1W	
	Resistance Resolution	0.1mΩ	0.1mΩ	0.1mΩ	
Load Regulation	Voltage	≤0.05% Umax	≤0.05% U _{max}	≤0.05% Umax	
Loud Hogulation	Current	≤0.05% Imax	≤0.05% Imax	≤0.05% lmax	
Line Regulation	Voltage	≤0.05% U _{max}	≤0.05% U _{max}	≤0.05% Umax	
	Current	≤0.05% Imax	≤0.05% Imax	≤0.05% Imax	
Ripple	Voltage	≤600mVp-p	≤ 1200mVp-p	≤ 100mVp-p	
	Current	≤30mArms	≤ 30mArms	≤ 30mArms	
Rise Time	Voltage (No Load)	20ms	30ms	5ms	
Rise Time	Voltage (Full Load)	50ms	60ms	10ms	
	Voltage (No Load)	20ms	30ms	5ms	
Fall lime	Voltage (Full Load)	20ms	30ms	5ms	
Analog Voltage Pi	ograming	0-10V ref 0-FS	0-10V ref 0-FS	0-10V ref 0-FS	
Analog Voltage IVI	onitoning	0-FS ref analog voltage monitoring 0-10V	0-FS ref analog voltage monitoring 0-10V	0-FS ref analog voltage monitoring 0-10V	
Analog Current Programming		Analog voltage programing -10V~10V ret6A~6A	Analog voltage programing -10V~10V ret3A~3A	Analog voltage programing -10V~10V ret30A~30A	
Analog Voltage Monitoring		-6A~6A ret Analog voltage programing -10V~10V	-3A~3A ref Analog voltage programing -10V~10V	-30A~30A ret Analog voltage programing -10V~10V	
Power Rating	Voltage Range	100VAC~240VAC	100VAC~240VAC	100VAC~240VAC	
	Ovp	264VAC	264VAC	264VAC	
	Сур	90VAC	90VAC	90VAC	
	Frequency Maximut Current	50HZ~60HZ	50HZ~60HZ	50HZ~60HZ	
	Nax.Input Current	2Aac(AG220V)	2Aac(AC220V)	4Aac (AG220V)	
Efficiency (Max.)	De Component	-U.IA~+U.IA	-U.IA~+U.IA	-U. IA~+U.1A	
Dimension (D*W*	I)	00%	00%	00%	
Net Weight	·/	450mm*214mm*43.5mm	450mm*214mm*43.5mm	450mm ² 14mm ⁴ 3.5mm	
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*Load mode resistance accuracy range: lower limit 1/(1/R+(1/R)*0.05+0.004) ; upper limit 1/(1/R-(1/R)*0.05-0.004) *This information is subject to change without notice



Your Power Testing Solution IT-M3400 bidirectional DC power supply

Specification

		IT-M3433	IT- M3434	IT-M3435	
	Output Voltage 0~150V		0~300V	0~600V	
Rated Output Value (0 °C-40 °C)	Output Current	-12A~12A	-6A~6A	-3A~3A	
	Output Power	-800W~800W	-800W~800W	-800W~800W	
CC Mode	Current Range	-12A~12A	-6A~6A	-3A~3A	
	Resolution	1mA	1mA	1mA	
	Accuracy	<0.1% lmax+0.1%lcurrent	<0.1% Imax+0.1% Icurrent	<0.1% lmax+0.1%lcurrent	
	Voltage Range	0~150V	0~300V	0~600V	
CV Mode	Resolution	10mV	10mV	10mV	
	Accuracy	<0.1% Umax	<0.1% Umax	<0.1% Umax	
Desistance	Resistance Range	0~1000mΩ	0~1000mΩ	0~1000mΩ	
Programming	Resolution	0.1mΩ	0.1mΩ	0.1mΩ	
(Sourcing)	Accuracy	2%*Rmax	2%*Rmax	2%*Rmax	
	Power Range	-800W~800W	-800W~800W	-800W~800W	
CP Mode	Resolution	0.1W	0.1W	0.1W	
	Accuracy	<1.0% Pmax	<1.0% Pmax	<1.0% Pmax	
	Range	-12A~12A	-6A~6A	-3A~3A	
Current Readback	Resolution	1mA	0.1mA	0.1mA	
	Accuracy	<0.1% Imax+0.1% Icurrent	<0.1% Imax+0.1% Icurrent	<0.1% Imax+0.1% Icurrent	
	Range	0~150V	0~300V	0~600V	
Voltage Readback	Resolution	10mV	10mV	10mV	
	Accuracy	<0.1% Umax	<0.1% Umax	<0.1% Umax	
	Range	-800W~800W	-800W~800W	-800W~800W	
Power Readback	Resolution	0.1W	0.1W	0.1W	
	Accuracy	<1% Pmax	<1% Pmax	<1% Pmax	
	Voltage Resolution	0.01V	0.01V	0.01V	
Decelution	Current Resolution	0.001A	0.001A	0.001A	
Resolution	Power Resolution	0.1W	0.1W	0.1W	
	Resistance Resolution	0.1mΩ	0.1mΩ	0.1mΩ	
	Voltage	≤0.05% Umax	≤0.05% Umax	≤0.05% Umax	
Load Regulation	Current	≤0.05% Imax	≤0.05% lmax	≤0.05% lmax	
	Voltage	≤0.05% Umax	≤0.05% Umax	≤0.05% Umax	
Line Regulation	Current	≤0.05% Imax	≤0.05% Imax	≤0.05% lmax	
Dipplo	Voltage	≤300mVp-p	≤600mVp-p	≤1200mVp-p	
пірріе	Current	≤30mArms	≤30mArms	≤30mArms	
Rise Time	Voltage (No Load)	20ms	20ms	30ms	
Rise Time	Voltage (Full Load)	50ms	50ms	60ms	
Fall Time	Voltage (No Load)	20ms	20ms	30ms	
Fall Time	Voltage (Full Load)	20ms	20ms	30ms	
Analog Voltage P	rograming	0-10V ref 0-FS	0-10V ref 0-FS	0-10V ref 0-FS	
Analog Voltage M	onitoring	0-FS ref analog voltage monitoring 0-10V	0-FS ref analog voltage monitoring 0-10V	0-FS ref analog voltage monitoring 0-10V	
Analog Current Programing		Analog voltage programing -10V~10V ref12A~12A	Analog voltage programing -10V~10V ref6A~6A	Analog voltage programing -10V~10V ref3A~3A	
Analog Voltage M	onitoring	-12A~12A ref Analog voltage programing -10V~10V	-6A~6A ref Analog voltage programing -10V~10V	-3A~3A ref Analog voltage programing -10V~10V	
Power Rating	Voltage Range	100VAC~240VAC	100VAC~240VAC	100VAC~240VAC	
	Ovp	264VAC	264VAC	264VAC	
	Uvp	90VAC	90VAC	90VAC	
	Frequency	50Hz~60Hz	50Hz~60Hz	50Hz~60Hz	
	Max.input Current	4Aac (AC220)	4Aac(AC220V)	4Aac(AC220V)	
	Dc Component	-0.1A~+0.1A	-0.1A~+0.1A	-0.1A~+0.1A	
Efficiency (Max.)		88%	88%	88%	
Dimension (D*W*h	H)	450mm*214mm*43.5mm	450mm*214mm*43.5mm	450mm*214mm*43.5mm	
Net Weight		5kg	5kg	5kg	

*Load mode resistance accuracy range: lower limit 1/(1/R+(1/R)*0.05+0.004) ; upper limit 1/(1/R-(1/R)*0.05-0.004)

*This information is subject to change without notice



This information is subject to change without notice.For more information, please contact ITECH.

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