



ITECH

Unidirectional DC Power Supply Selection Guide

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TESTING SOLUTION



ITECH

DC Power Supplies – Selection Guide

High Precision Power Supply

Applications: Semiconductor, LED, IoT, Optical Communication Module, DC-DC module, Medical /Automotive Electronics

Series	Channel	Power	Voltage	Modular& Expandable*	Performance	Size	Page
IT6400	1~2CH	0.63~150W	±6V, ±9V, ±15V, ±30V, ±60V	---	High Precision	1/2 2U	P2
IT-M3200	1CH	100~360W	20V, 60V	---	High efficiency with linear-grade precision	1/2 1U	P2
IT6900A	1CH	100~600W	60V, 150V	---	High efficiency with linear-grade precision	1/2 2U	P3
IT-N6900	1CH	850~1500W	60V, 150V	---	High efficiency with linear-grade precision	1/2 2U	P3
IT6100B	1~2CH	86.4~150W	20V, 30V, 32V, 60V, 72V	---	High Precision	1/2 2U	P4

Multi-channel Power Supply

Applications: Battery, IoT, laser, complex system like automotive, satellite

Series	Channel	Power	Voltage	Modular& Expandable*	Performance	Size	Page
IT2705	8CH	200~500W	±20V, 20V, 30V, 60V, 150V	1.6kW	High Precision	5U	P4-5
IT2700	8CH	200~500W	±20V, 20V, 30V, 60V, 150V	2kW	High Precision	1U	P5
IT6300	3CH	15~180W	5V, 16V, 30V, 60V	375W	High Precision	1/2 2U	P6
IT-N6300	3CH	45~200W	9V, 15V, 32V, 60V	445W	High efficiency with linear-grade precision	1/2 2U	P6
IT-M3100	1CH	400~1500W	20V, 30V, 60, 80V, 150V, 300V, 600V, 1000V	---	High Precision	1/2 1U	P7
IT-M3100D	2CH	200~400W	30V, 60V	800W	High Precision	1/2 1U	P8

Bench DC Power Supply

Applications: R&D labs, education, maintenance, and electronics prototyping

Series	Channel	Power	Voltage	Modular& Expandable*	Performance	Size	Page
IT6700	1CH	100~180W	60V	---	High efficiency with linear-grade precision	88*175*282	P8
IT-N6700	1CH	1000~1500W	32V, 80V, 150V, 300V, 600V, 1000V, 1500V	---	High Precision	1/2 2U	P9
IT6700H	1CH	400~3000W	32V, 80V, 150V, 300V, 600V, 1200V	---	High Precision	1/2 2U, 2U	P9
IT6800A/B	1CH	72~216W	8V, 12V, 18V, 20V, 32V, 50V, 60V, 72V, 75V, 150V	---	High Efficiency	1/2 2U	P10
IT-M3140	1CH	1850~3000W	30V, 80V, 150V, 300V, 600V, 1000V, 1200V	---	High Efficiency	1/2 2U	P10

High Power DC Power Supply

Applications: Automotive, energy storage, battery, AI data centers, ATE, power electronics, electroplating, Certification and Testing Organizations

Series	Channel	Power	Voltage	Modular& Expandable*	Performance	Size	Page
IT6500*1	1CH	800~6000W	80V, 150V, 200V, 360V, 500V, 750V, 1000V	30kW	High Efficiency	1U, 2U, 4U	P11
IT-M3900D*1	1CH	1.7~12kW	10V, 32V, 80V, 300V, 500V, 800V, 1500V	1.5MW	High Efficiency 1U/6kW	1U, 2U...37U	P12
IT6000D*1	1CH	5~144kW	80V, 300V, 500V, 800V, 1500V, 2250V	2MW	High Efficiency 3U/18kW	3U..37U	P13
IT6600D*1	2CH	42~420kW	1200, 1600V, 2250V	10MW	Ultra-Fast Response 3U/42kW dual channel	3U..37U	P14

Solar Array Simulator

Applications: Micro inverter, power optimizer, satellite power system

Series	Channel	Power	Voltage	Modular& Expandable*	Performance	Size	Page
IT-N2100	1CH	800~1500W	80, 150V	---	Ultra-Fast Response Current Source	1/2 2U	P15

* means max expandable power (via built-in Master-Slave parallel; external physical paralleling not included)

*1 Built-in Automotive Electronics Waveforms

High Precision Power Supply

IT6400 Bipolar DC Power Supply / Battery Simulator



Features

- High performance color LCD display, dual channel output display main interface *1
- Bipolar dual-range output
- Accurate Battery Simulation
- Oscilloscope waveform display (DSO)
- Ultrafast transient response time < 20 μs
- Ultrafast voltage rising time up to 150 μs
- Current display resolution up to 1 nA
- Ultra-small current ripple up to 2 μArms
- Built-in high accuracy DVM
- Variable output impedance
- Applicable to portable battery power supplies test
- LED test no overcharged current
- Relay out function achieves electrical isolation on terminals
- High speed AD sampling
- List function achieves voltage/current output as programmed
- Standard interface LAN/USB *2

*1 IT6402 / IT6412 / IT6412S provide this function

*2 For any GPIB interface option request, check with ITECH for availability.

Model	Voltage	Current	Power	Accuracy	Channel
IT6402	CH1: -6V~0V, 0~6V CH2: 0~6V	CH1: ±2A CH2: ±2A	CH1: 12W CH2: 12W	≤0.02%+2mV/ ≤0.05%+2μA	2
IT6411	±15V/±9V	±3A/±5A	45W	≤0.02%+2mV/ ≤0.05%+2μA	1
IT6411S	-15V~0V, 0~15V	±0.1 A	1.5 W	≤0.02%+2mV/ ≤0.05%+2μA	1
IT6412	CH1: ±15V/±9V CH2: 0~15V/0~9V	CH1: ±3A/±5A CH2: ±3A/±5A	CH1: 45W CH2: 45W	≤0.02%+2mV/ ≤0.05%+2μA	2
IT6412S	CH1: -15V~0V,0~15V CH2: 0~15V	CH1: ±0.1A CH2: ±0.1A	CH1: 1.5W CH2: 1.5W	≤0.02%+2mV/ ≤0.05%+50nA	2
IT6431	-15V~0V, 0~15V	±10 A	150W	≤0.02%+3mV/ ≤0.05%+5uA	1
IT6432	-30V~0V, 0~30V	±5A	150W	≤0.02%+3mV/ ≤0.05%+2μA	1
IT6432S	-30V~0V, 0~30V	±21mA	0.63W	≤0.02%+2mV/ ≤0.05%+50nA	1
IT6433	-60V~0V,0~60V	±2.5 A	150W	≤0.02%+4mV/ ≤0.05%+2uA	1

IT-M3200 High Accuracy Programmable DC Power Supply

Features

- Low ripple and noise
- Current readback is up to 10nA
- Four current measurement ranges Low/Middle/High/Auto
- List, CC/CV priority setting
- Multi-channel independent control, one communication card can control 16 channels, up to 256 channels
- Different timing output of each channel to achieve synchronization or proportional tracking
- Support multiple communication protocol,CANopen, CAN 2.0B*,SCPI
- Five optional cards, supporting RS232,CAN,LAN,GPIB, USB_TMC,USB_VCP,RS485, analog Interfaces
- OVP/OCP/OTP/OPP/UVP/UCP,Foldback

* Contact ITECH for customization

Model	Voltage	Current	Power
IT-M3223	60V	10A	100W
IT-M3233	60V	10A	200W
IT-M3243	60V	10A	360W
IT-M3253	20V	20A	100W
IT-M3263	20V	20A	200W
IT-M3273	20V	20A	360W



IT6900A Wide-range Programmable DC Power Supply

- VFD display
- Adjust voltage and current via knob or numerical key pad
- High accuracy and high resolution
- Adjust digital step value via cursor
- Output voltage and current values accordance with procedure
- Output Timer(0.1 ~ 99999.9S) Function
- Low ripple and low noise
- Remote Sense Function
- Intelligent fan control
- Rich SCPI instructions to facilitate the formation of intelligent test platform
- Support front and rear panel output
- Optional external analog function
- Standard communication interface RS232/USB*

* For any GPIB interface option request , check with ITECH for availability.

Model	Voltage	Current	Power	Size
IT6922A	60V	5A	100W	1/2 2U
IT6932A	60V	10A	200W	1/2 2U
IT6933A	150V	5A	200W	1/2 2U
IT6942A	60V	15A	360W	1/2 2U
IT6952A	60V	25A	600W	1/2 2U
IT6953A	150V	10A	600W	1/2 2U



IT-N6900 Programmable DC Power Supply

- 4.3" HD LCD
- Voltage: 60V, 150V
- Power: 800W, 1500W, wide range output
- Two current ranges, 1µA current resolution
- Lower ripple and noise
- Trend analysis, monitor the voltage, current and power of the DUT in time
- Faster voltage rise and fall
- With CC, CV priority, suitable for a variety of DUT's
- Support OVP, UVP, OCP, OPP, OTP, Foldback protection function
- Built-in USB, LAN, Digital I/O communication interface, optional GPIB, RS232, Analog I/O
- Support SCPI, LabVIEW programming

* IT-N6900 series is CSA certified.



Model	Voltage	Current	Power
IT-N6952	60V	25A	850W
IT-N6962	60V	25A	1500W*1
IT-N6953	150V	10A	850W
IT-N6963	150V	10A	1500W*1
IT-E177	RS232&Analog		Optional
IT-E176	GPIB		Optional

* The power output is 850W under 110Vac input.

IT6100B High Accuracy Programmable DC Power Supply

- Output linear adjustment, high speed, reliable, low noise
 - High accuracy and resolution
 - Ultrafast voltage rise slew rate
 - Built-in 5½ digit voltmeter and milliohmmeter
 - Memory capacity: 100 groups
 - List mode
 - Timer function (0.01~60000S)
 - Remote sense, compensate line voltage
 - Built-in RS232/USB interfaces, support SCPI protocol*
- * For any GPIB interface option request , check with ITECH for availability.

Model	Voltage	Current	Power	Size
IT6121B	20V	5A	100W	1/2 2U
IT6122B	32V	3A	96W	1/2 2U
IT6123B	72V	1.2A	86W	1/2 2U
IT6132B	30V	5A	150W	1/2 2U
IT6133B	60V	2.5A	150W	1/2 2U



Multi-channel Power Supply

IT2705 Modular DC Power Analyzer



IT2705 Modular DC Power Analyzer/ IT2700 Multi-channel Modular Power System

- Compact size: single unit up to 8 channels: 1U or 5U mainframe 7-inch color display
- 2 mainframes (1U), 4 module types (DC power supply, bidirectional power supply, regenerative load and SMU)*4
- SMU module supports four-quadrant operation, EIS testing (auto-generating Nyquist and Bode plots), and offers nA-level accuracy
- Free PC software PV2700, display 8-channel output
- Oscilloscope function: Capable of digitizing voltage and current with a frequency of up to 200kHz and a memory depth of 600kpts*1
- Data logging function: Up to 50kHz sampling rate, and the data can be saved on a USB drive or stored via the host computer.
- The electrically isolated source load module supports 8 modules in master-slave parallel connection up to 2kW*2
- Load function: support CC, CV, CP, CR, CC+CV, CR+CV, CP+CV, CC+CR, AUTO,BSIM(battery simulation)
- Supports automatic switching for CV, CC, and CP, with selectable CC & CV priority, and internal resistance setting
- Supports synchronous control between different frames, no upper limit of channels
- Rich trigger output and input, support step trigger output, can trigger other modules (acquisition, oscilloscope, data recording, etc.)
- Measurement functions: multi-output/single-output display, supports average, minimum and maximum values of V/I/P, and calculates P, Ah and Wh for all outputs
- Output functions: list function, arbitrary waveform, sweep, arbitrary wave sequence, constant dwell arbitrary wave, load transient, battery simulation*3, battery test, output on/off serialization, Watchdog, support output coupling
- Full protection: OVP, UVP, OCP, OPP, OTP, UCP, Foldback, supports protection coupling
- Modules come with a built-in power relay, supporting reverse polarity protection, leakage prevention, and surge protection
- Support Web control, use common browser to realize all functions
- AC input: adaptive 100-380 V ac single phase
- Built-in LAN, USB-TMC, USB-VCP, CAN, digital I/O, data import and export by USB
- Support SCPI, CANopen, CAN 2.0B*5, and Modbus protocol

*1 The oscilloscope functions of the 1U mainframe can be operated via PV2700 software.

*2 One mainframe allows two sets of master-slave parallel connections

*3 Only available for bidirectional power supply modules

*4 SMU module should be equipped with IT2705 or IT2702 mainframe

*5 Contact ITECH for customization

Voltage	Current	Power	DC power supply*1	Bidirectional DC*1 power supply	Regenerative*1 DC load	SMU module*2
±20V	±3A	±20W (2 slots occupied)				IT27814(E)
20V	50A	500W*3 (2 slots occupied)	IT27153/IT27153R	IT27353/IT27353R	IT27553/IT27553R	
30V	15A	200W	IT27134/IT27134R	IT27334/IT27334R	IT27534/IT27534R	
		500W (2 slots occupied)	IT27154/IT27154R	IT27354/IT27354R	IT27554/IT27554R	
60V	10A	200W	IT27135/IT27135R	IT27335/IT27335R	IT27535/IT27535R	
		500W (2 slots occupied)	IT27155/IT27155R	IT27355/IT27355R	IT27555/IT27555R	
150V	5A	200W	IT27137/IT27137R	IT27337/IT27337R	IT27537/IT27537R	
		500W (2 slots occupied)	IT27157/IT27157R	IT27357/IT27357R	IT27557/IT27557R	
IT2702	1U mainframe without front panel (8 slots)					
IT2703	1U mainframe with touch screen (6 slots)					
IT2704	1U mainframe without front panel (8 slots, only available for load modules)					
IT2705	5U mainframe with touch screen (8 slots)					

*1 IT27xxx should be equipped with IT2702/ IT2704/IT2705 ; IT27xxxR should be equipped with IT2703 *2 SMU module should be equipped with IT2705 or IT2702 mainframe.

*3 20V/50A/500W module could only be equipped with 1U mainframe.

IT-N6300 Series Triple-Channel Programmable DC Power Supply



- 4.3-inch Color LCD Display
- Fully Isolated Triple Channels with Independent Control
- Multiple Output Modes: Series, Parallel, and Synchronous
- Auto Range Mode for Versatile Testing Needs
- Transient Response Time: $\leq 50 \mu\text{s}$
- High Accuracy: $\leq 0.02\% + 3 \text{ mV} / \leq 0.03\% + 1.5 \text{ mA}$
- Programming Response Time: 5 ms
- Low Output Ripple and Noise
- CC/CV Priority Modes
- Comprehensive Protection Features: OVP, UVP, OCP, UCP, OPP, OTP, and FOLDBACK
- Supports Local and Remote Sensing Modes
- Built-in USB, LAN, Digital I/O, and RS232 Communication Interfaces (on Select Models)

Product model	Channels	Total Power	CH1 & CH2	CH3	Setup Resolution	Interface	Silicone Protective Case
IT-N6322A	3	245W	32V/6A/100W	9V/5A/45W	10mV/1mA	USB	Optional
IT-N6322B	3	245W	32V/6A/100W	15V/5A/45W	1mV/0.1mA	USB/LAN/RS232/ Digital I/O	Standard
IT-N6323A	3	245W	60V/3A/100W	9V/5A/45W	10mV/1mA	USB	Optional
IT-N6323B	3	245W	60V/3A/100W	15V/5A/45W	1mV/0.1mA	USB/LAN/RS232/ Digital I/O	Standard
IT-N6332A	3	445W	32V/10A/200W	9V/5A/45W	10mV/1mA	USB	Optional
IT-N6332B	3	445W	32V/10A/200W	15V/5A/45W	1mV/0.2mA	USB/LAN/RS232/ Digital I/O	Standard
IT-N6333A	3	445W	60V/5A/200W	9V/5A/45W	10mV/1mA	USB	Optional
IT-N6333B	3	445W	60V/5A/200W	15V/5A/45W	1mV/0.1mA	USB/LAN/RS232/ Digital I/O	Standard

IT6300 High Performance Triple Channels DC Power Supply

Model	Specification	Interface	Protection
IT6322	30V/3A/90W*2CH ; 5V/3A/15W*1CH	Optional USB/GPIB/RS232	Limited voltage, limited current and OTP
IT6322A	30V/3A/90W*2CH ; 5V/3A/15W*1CH	USB/RS232	OVP, OTP
IT6322B	30V/3A/90W*2CH ; 5V/3A/15W*1CH	USB/GPIB/RS232	OVP, OTP
IT6322C	30V/3A/90W*2CH ; 5V/3A/15W*1CH	USB/LAN	OVP, OTP
IT6332A	30V/6A/180W*2CH ; 5V/3A/15W*1CH	USB/RS232	OVP, OTP
IT6332B	30V/6A/180W*2CH ; 5V/3A/15W*1CH	USB/GPIB/RS232	OVP, OTP
IT6332C	30V/6A/180W*2CH ; 5V/3A/15W*1CH	USB/LAN	OVP, OTP
IT6333A	60V/3A/180W*2CH ; 5V/3A/15W*1CH	USB/RS232	OVP, OTP
IT6333B	60V/3A/180W*2CH ; 5V/3A/15W*1CH	USB/GPIB/RS232	OVP, OTP
IT6333C	60V/3A/180W*2CH ; 5V/3A/15W*1CH	USB/LAN	OVP, OTP
IT6341C	5V/16A/80W*1CH ; 16V/5A/80W*1CH	USB/LAN	OVP, OTP

IT-M3100 Ultra-compact Wide Range DC Power Supply

- 1U Half-Rack, Ultra-Compact Size
- Adjustable rising/falling speed of output current, to meet various test applications
- High speed test, up to 10 times per second
- Up to 100 steps LIST operation, support output of various dynamic waveforms
- Support CC/CV loop speed and priority setting
- Parallel operation can be easily controlled by one unit
- Independent control of multi- channels, one communication card can control up to 16 channels, max.256 channels*
- Support output of different timings of each channel, can synchronize or delay the output, and supports the output of different ratios of voltage
- Support CANopen, CAN 2.0B*1, SCPI, Modbus and other protocols
- Five optional cards , providing RS232, CAN, LAN, GPIB, USB_TMC, USB_VCP, RS485, external analog communication interfaces
- Support TRACE function, can draw voltage and current waveforms in real time (Supported by program)
- Battery charging test function
- Software watchdog provides more reliable and safe automatic battery test solution
- Various protection functions such as OVP, \pm OCP, \pm OPP, OTP, ensure secure testing
- Provide Inhibit pins to disable and restore the output of the power supply

* For multiple IT-M3100 rack installations, follow the manual's layout for cooling consideration

*1 Contact ITECH for customization

20V/30V/60V

Model	Voltage	Current	Power
IT-M3110	20V	100A	400W
IT-M3120	20V	100A	850W
IT-M3130	20V	120A	1500W
IT-M3111	30V	70A	400W
IT-M3121	30V	70A	850W
IT-M3131	30V	100A	1500W
IT-M3112S	60V	20A	200W
IT-M3120S	60V	35A	800W

80V/150V/300V

Model	Voltage	Current	Power
IT-M3112	80V	22A	400W
IT-M3122	80V	22A	850W
IT-M3132	80V	40A	1500W
IT-M3113	150V	12A	400W
IT-M3123	150V	12A	850W
IT-M3133	150V	20A	1500W
IT-M3114	300V	6A	400W
IT-M3124	300V	6A	850W
IT-M3134	300V	10A	1500W

600V/1000V

Model	Voltage	Current	Power
IT-M3115	600V	3A	400W
IT-M3125	600V	3A	850W
IT-M3135	600V	5A	1500W
IT-M3116	1000V	3A	400W
IT-M3126	1000V	3A	850W
IT-M3136	1000V	3A	1500W



IT-M3100D Dual-channel DC Power Supply

- High power density, 1U Half-Rack only Isolated dual-channel design
- Different timing output of each channel, synchronous or delayed output,output with different voltage ratios
- Adjustable rise/fall time
- Up to 100 steps LIST operation, support output of various dynamic waveforms
- CC/CV loop speed and priority setting
- Independent control of multi- channels, one communication card can control up to 16 channels
- Series/parallel connection between two channels is available*1 new
- Support CW
- Support CANopen, CAN 2.0B*2 , LXI, SCPI
- Five optional cards , providing RS232, CAN, LAN, GPIB,USB_TMC, USB_VCP, RS485, external analog communication interfaces
- Support TRACE function, can draw voltage and current waveforms in real time (Supported by program)
- Various protection functions such as Sense, OVP, OCP, OPP, OTP, Foldback
- Provide self-locking function, when the device is self-locked, the device will not be able to output

*1 Max.100V can be output after series/parallel connection
 *2 Contact ITECH for customization

Model	CH1	CH2
ITM3131D	30V/15A/200W	30V/15A/200W
ITM3141D	30V/15A/400W	30V/15A/400W
ITM3132D	60V/10A/200W	60V/10A/200W
ITM3142D	60V/10A/400W	60V/10A/400W



Bench DC Power Supply

IT6700 DC Power Supply

- Completely digital-control
- 10mV/1mA high accuracy and resolution
- Lower noise and ripple
- CV/CC modes
- Minimum size to save space
- Bright and easy to read display (VFD)
- OCP/OVP/OTP protection
- The most economical high performance digital-control power supply
- Full scale , no need to switch
- Switch control for output

*1 Max.100V can be output after series/parallel connection



Model	Voltage	Current	Power
IT6721	60V	8A	180W
IT6720	60V	5A	100W

IT6700H Wide Range High Voltage Programmable DC Power Supply

- Voltage up to 1200V
- VFD display
- High voltage high current models optional
- Output control via ON/OFF switch
- Safety terminal
- List mode, editable waveforms of voltage and current
- Remote sense
- Built-in RS232/USB *1

*1 IT6722 is with GPIB interface

* For any GPIB interface option request, check with ITECH for availability.



Model	Voltage	Current	Power	Size
IT6722	80V	20A	400W	1/2 2U
IT6722A	80V	20A	400W	1/2 2U
IT6723	80V	40A	850W	1/2 2U
IT6723B	150V	20A	850W	1/2 2U
IT6723C	32V	110A	850W	1/2 2U
IT6723G	600V	5A	850W	1/2 2U
IT6723H	300V	10A	850W	1/2 2U
IT6724	80V	40A	1500W	1/2 2U
IT6724B	150V	20A	1500W	1/2 2U
IT6724C	32V	110A	1500W	1/2 2U
IT6724G	600V	5A	1500W	1/2 2U
IT6724H	300V	10A	1500W	1/2 2U
IT6726C	32V	220A	3kW	2U
IT6726V	1200V	5A	3kW	2U

IT-N6700 Programmable DC Power Supply

- 4.3-inch high-resolution LCD display
- Multiple output modes: CC / CV / CP
- Wide-range design: 32 V–1500 V, 1000 W & 1500 W
- LIST mode with adjustable voltage and current rise/fall slew rates
- CC/CV priority modes to accommodate a wide range of devices under test (DUTs)
- Trend graph analysis for long-term monitoring of voltage, current, and power (V/I/P) curves of the device under test
- Remote sensing (remote compensation) function

- Comprehensive protection features: OCP/OVP/UVP/OPP/OTP/ Foldback
- Standard USB, LAN, Digital I/O, RS232 communication interfaces



Model	1000W	Model	1500W
IT-N6723C	32V/110A/1000W	IT-N6724C	32V/110A/1500W
IT-N6723	80V/40A/1000W	IT-N6724	80V/40A/1500W
IT-N6723B	150V/20A/1000W	IT-N6724B	150V/20A/1500W
IT-N6723H	300V/10A/1000W	IT-N6724H	300V/10A/1500W
IT-N6723G	600V/5A/1000W	IT-N6724G	600V/5A/1500W
IT-N6723V	1000V/3A/1000W	IT-N6724V	1000V/3A/1500W
IT-N6723P	1500V/2A/1000W	IT-N6724P	1500V/2A/1500W

IT6800A/B Dual-range & Single Channel Programmable DC Power Supply



Model	Voltage	Current	Power	Interface
IT6861A	20V/8V	5A/9A	100W/72W	RS232/USB
IT6862A	32V/12V	3A/6A	96W/72W	RS232/USB
IT6863A	72V/32V	1.5A/3A	108W/96W	RS232/USB
IT6872A	35V/15V	4A/7A	140W/105W	RS232/USB
IT6873A	75V/32V	2A/4A	150W/128W	RS232/USB
IT6874A	150V/60V	1.2A/2A	180W/120W	RS232/USB

*The IT6800A dual range series is without GPIB interface. The remaining parameters are the same as the IT6800B series.

If needing GPIB interface, the IT6800B dual range series can be selected.

Model	Voltage	Current	Power	Interface
IT6831A	18V	10A	180W	USB/RS232
IT6832A	32V	6A	192W	USB/RS232
IT6832B	32V	6A	192W	USB/RS232/GPIB
IT6833A	72V	3A	216W	USB/RS232
IT6833B	72V	3A	216W	USB/RS232/GPIB
IT6835A	50V	4A	200W	USB/RS232
IT6835B	50V	4A	200W	USB/RS232/GPIB

* IT6800A single channel series is standard model, IT6800B single channel series is optional if you need GPIB interface.

IT-M3140 Programmable DC Power Supply

- Only 2U half rack, 1850W/3000W
- 30V-1200V, 150A
- Three output modes: CV/CC/CP
- CC/CV priority to avoid current overshoot
- Fast dynamic response: <1ms
- According to the voltage and current waveform output programmed by LIST, the rising and falling slopes are adjustable
- Fold back, UVP/OVP, UCP/OC, OPP, OTP, inhibit protection, more secure and reliable
- The Sense protection circuit combined with software and hardware can effectively detect Sense reverse connection and missing connection, and protect the DUT
- Standard USB/LAN, optional RS232 & analog, GPIB, easy to integrate

Model	Parameter Specifications (3000W)	Model	Parameter Specifications (1850W)
IT-M3141	30V/150A/3000W	IT-M3131E	30V/150A/1850W
IT-M3142	80V/80A/3000W	IT-M3132E	80V/80A/1850W
IT-M3143	150V/40A/3000W	IT-M3133E	150V/40A/1850W
IT-M3144	300V/20A/3000W	IT-M3134E	300V/20A/1850W
IT-M3145	600V/10A/3000W	IT-M3135E	600V/10A/1850W
IT-M3146	1000V/6A/3000W	IT-M3136E	1000V/6A/1850W
IT-M3147	1200V/5A/3000W	IT-M3137E	1200V/5A/1850W

Size: 2U half rack

AC input range (single-phase: L, N, PE) : A. 110Vac±10%, power down to 1500W

B. 192Vac~264Vac, full power output of all models



High Power DC Power Supply

IT6500 Wide-range High-power DC Power Supply



- Support multiple power supplies paralleling in Master-Slave mode and ensures each power supply equally shares the load current. Extension capacity is up to 30kW output.
- Support various modes (CV/CC/CP), independent edge setting
- Adjustable rising and falling time
- Built-in DIN 40839, ISO-16750-2, SAEJ1113-11, LV124 and ISO2184 standard voltage curve for automobile power net *2
- LIST mode programming
- Variable output impedance function *1
- Low ripple and low noise
- High resolution and high accuracy
- Support multiple protections (Power Supply: OVP,OCP,OPP; Vsense Reverse protection, turn-off protection, input under voltage protection
- Remote sense function
- Analog control interfaces
- Built-in USB/RS232/CAN/LAN*3 interfaces

*1 Limit IT6500C series have this function

*2 Limit IT6500C series have this function, IT6512 and IT6513 are built-in DIN 40839, ISO-16750-2

*3 1U-high models do not support LAN interface.

800W	IT6502D 80V/60A/800W					
1200W	IT6512/A 80V/60A/1200W	IT6513/A 150V/30A/1200W				
1800W	IT6512C/D 80V/120A/1800W	IT6513C/D 200V/60A/1800W	IT6514C/D 360V/30A/1800W	IT6515C/D 500V/20A/1800W	IT6516C/D 750V/15A/1800W	IT6517C/D 1000V/10A/1800W
3kW	IT6522C/D 80V/120A/3kW	IT6523C/D 200V/60A/3kW	IT6524C/D 360V/30A/3kW	IT6525C/D 500V/20A/3kW	IT6526C/D 750V/15A/3kW	IT6527C/D 1000V/10A/3kW
6kW	IT6532C/D 80V/240A/6kW	IT6533C/D 200V/120A/6kW	IT6534C/D 360V/60A/6kW	IT6535C/D 500V/40A/6kW	IT6536C/D 750V/30A/6kW	IT6537C/D 1000V/20A/6kW

IT-M3900D High power DC power supply



- 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
- *1 For parallel units exceeding 16 units of 1U models or 8 units of 2U models, please contact ITECH.
- 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 I/O communication interface, optional GPIB, analog & RS232
 - Support CANopen, CAN 2.0B and SCPI protocol

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

	Model	Current	Power	Size
32V	IT-M3902D-32-80*1	80A	2kW	1U
	IT-M3904D-32-160*1	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*1	40A	2kW	1U
	IT-M3904D-80-80*1	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

*1 These models are CSA certified.

*This information is subject to change without notice.

IT6000D High Power Programmable DC Power Supply



- High power density up to 18kW in compact 3U rack space, expandable up to 2 MW by paralleling
- Output voltage up to 2250V
- Output current up to 8000A
- Adopts third-generation SiC technology
- The adoption of high frequency switching structure supports the automatic switching between CV and CC
- Provides various protections: OVP, OCP, OPP, OTP, protection of power failure and UVP
- Power efficiency up to 95%
- Supports data recording function, can continuously record the Max, Min, Average values of output voltage and current, and it can automatically execute data by sequence
- Supports external data logging functionality, enabling real-time data storage via USB drive insertion
- Built-in interfaces of USB, CAN, LAN, Digital I/O, and optional interfaces of GPIB, Analog and RS232
- Supports CANopen, CAN 2.0B and SCPI protocol, built-in Web server

	Model	Current	Power		Model	Current	Power		Model	Current	Power
80V	IT6005D-80-150	150A	5kW	300V	IT6006D-300-75	75A	6kW	500V	IT6006D-500-40	40A	6kW
	IT6010D-80-300	300A	10kW		IT6012D-300-150	150A	12kW		IT6012D-500-80	80A	12kW
	IT6015D-80-450	450A	15kW		IT6018D-300-225	225A	18kW		IT6018D-500-120	120A	18kW
	IT6030D-80-900	900A	30kW		IT6036D-300-450	450A	36kW		IT6036D-500-240	240A	36kW
	IT6045D-80-1350	1350A	45kW		IT6054D-300-675	675A	54kW		IT6054D-500-360	360A	54kW
	IT6060D-80-1800	1800A	60kW		IT6072D-300-900	900A	72kW		IT6072D-500-480	480A	72kW
	IT6075D-80-2040	2040A	75kW		IT6090D-300-1125	1125A	90kW		IT6090D-500-600	600A	90kW
	IT6090D-80-2040	2040A	90kW		IT6108D-300-1350	1350A	108kW		IT6108D-500-720	720A	108kW
	IT6105D-80-2040	2040A	105kW		IT6126D-300-1575	1575A	126kW		IT6126D-500-840	840A	126kW
	IT6120D-80-2040	2040A	120kW		IT6144D-300-1800	1800A	144kW		IT6144D-500-960	960A	144kW

	Model	Current	Power		Model	Current	Power		Model	Current	Power		
800V	IT6006D-800-25	25A	6kW	1500V	IT6018D-1500-40	40A	18kW	2250V	IT6018D-2250-25	25A	18kW		
	IT6012D-800-50	50A	12kW		IT6036D-1500-80	80A	36kW		IT6036D-2250-50	50A	36kW		
	IT6018D-800-75	75A	18kW		IT6054D-1500-120	120A	54kW		IT6054D-2250-75	75A	54kW		
	IT6036D-800-150	150A	36kW		IT6072D-1500-160	160A	72kW		IT6072D-2250-100	100A	72kW		
	IT6054D-800-225	225A	54kW		IT6090D-1500-200	200A	90kW		IT6090D-2250-125	125A	90kW		
	IT6072D-800-300	300A	72kW		IT6108D-1500-240	240A	108kW		IT6108D-2250-150	150A	108kW		
	IT6090D-800-375	375A	90kW		IT6126D-1500-280	280A	126kW		IT6126D-2250-175	175A	126kW		
	IT6108D-800-450	450A	108kW		IT6144D-1500-320	320A	144kW		IT6144D-2250-200	200A	144kW		
	IT6126D-800-525	525A	126kW										
	IT6144D-800-600	600A	144kW										

* This information is subject to change without notice

IT6600D High Power Programmable DC Power Supply



- High power density, up to 42kW in 3U
- Independent dual-channel design in 3U unit, and channels can be connected in series or parallel
- Master-slave current sharing, output max. 10MW in parallel
- 5-inch touch screen with intuitive GUI
- Data recorder function
- Oscilloscope function, instant data analysis and saving
- CC/CV priority
- List function, dynamic working condition simulation with tens of millions of points
- Redundancy function, helps to check the status of each single unit or cabinet and ensure the overall output
- Built-in communication interface: USB, LAN (Rawssocket/ Modbus-TCP/ Profinet/ VNC/ VXI-11/ Web/ Telnet), CAN 2.0B (CANopen/CAN2.0), digital I/O
- Optional communication interface: GPIB/EtherCAT/Analog & RS232
- Free PC software

	Model	Current	Power		Model	Current	Power		Model	Current	Power
1200V	IT6642D-1200-200	200A	42kW	1600V	IT6642D-1600-140	140A	42kW	2250V	IT6642D-2250-100	100A	42kW
	IT6684D-1200-400	400A	84kW		IT6684D-1600-280	280A	84kW		IT6684D-2250-200	200A	84kW
	IT66126D-1200-600	600A	126kW		IT66126D-1600-420	420A	126kW		IT66126D-2250-300	300A	126kW
	IT66168D-1200-800	800A	168kW		IT66168D-1600-560	560A	168kW		IT66168D-2250-400	400A	168kW
	IT66210D-1200-1000	1000A	210kW		IT66210D-1600-700	700A	210kW		IT66210D-2250-500	500A	210kW
	IT66252D-1200-1200	1200A	252kW		IT66252D-1600-840	840A	252kW		IT66252D-2250-600	600A	252kW
	IT66294D-1200-1400	1400A	294kW		IT66294D-1600-980	980A	294kW		IT66294D-2250-700	700A	294kW
	IT66336D-1200-1600	1600A	336kW		IT66336D-1600-1120	1120A	336kW		IT66336D-2250-800	800A	336kW
	IT66378D-1200-1800	1800A	378kW		IT66378D-1600-1260	1260A	378kW		IT66378D-2250-900	900A	378kW
IT66420D-1200-2000	2000A	420kW	IT66420D-1600-1400	1400A	420kW	IT66420D-2250-1000	1000A	420kW			

Solar Array Simulator

IT-N2100 Series Solar Array Simulator

Model	Voltage	Current	Power
IT-N2121*	80V	25A	800W
IT-N2131*	80V	25A	1500W
IT-N2123	150V	10A	800W
IT-N2133	150V	10A	1500W

*can be extended to 85V output



- Precise simulation of the IV characteristics output of silicon, GaAs and other types of solar PV panels
- Built-in solar array simulation software, supporting multi-channel control*
- High-speed current dynamic response to support fast MPPT for microinverters
- Up to 1500V DC output common-mode withstand voltage, supporting series testing of the DUT
- Fixed mode, adjustable output impedance, can simulate CC, CV, CP output
- Ultra-low current ripple, high precision sampling, programming and measurement
- Simulate I-V curve under different temperature and light
- Built-in EN50530, Sandia, NB/T32004, CGC/GF004, CGC/GF035 regulations dynamic model test, and generate reports
- Graphical operation interface, real-time display of MPPT status of PV inverter
- Dynamic list sequence programming: 100 steps x 20 data sets
Real-time data and curve recording for further analysis
- Simulation of dynamic and static I-V curves of solar panels under cloud shadow
- Table mode supports I-V curve fitting with 4096 points
- Quickly generate I-V by setting Voc, Isc, Vmp, Imp by four-point method
- Comprehensive curve protection: OVP, OCP, OPP, OTP
- Small size: 2U half rack for single channel
- 4.3" HD LCD, easy to operate
- Front and rear panel output, adaptable to bench top and system integration for various applications
- Standard communication interface LAN, USB, digital I/O, support SCPI

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