ПРОГРАММИРУЕМЫЕ ИСТОЧНИКИ ПИТАНИЯ

ПОСТОЯННОГО ТОКА

62075H-30, 30N;
62050H-40, 450, 600;
62100H-30, 40, 450;
62015B-15-90, 30-50, 60-25, 80-18, 150-10;
62006P-30-80, 100-25, 300-8;
62012P-40-120, 80-60, 100-50

ТЕХНИЧЕСКИЕ ХАРАКТЕРИСТИКИ

PROGRAMMABLE DC POWER SUPPLY
MODEL 62000H SERIES

62000H Series of programmable DC power supplies offer many unique advantages for telecom, automated test system & integration, industrial, battery charge & simulation for hybrid cars and solar panel simulation. These advantages include high power density of 15KW in 3U, precision readback of output current and voltage, output trigger signals as well as the ability to create complex DC transient waveforms to test device behavior for spikes, drops, and other voltage deviations.

The 62000H Series includes 14 different models ranging from 5KW to 15KW, with current range up to 375A and voltage range up to 1000V. The 62000H can easily parallel up to ten units capable of 150KW with current sharing for bulk power applications, for example, battery bank simulation of 450V/150A/67.5KW for electric vehicle and military use.

There are 100 user programmable input status on the front panel for automated test application and life cycle ON/OFF test. In addition, the 62000H has a 16 bit digital control with bright vacuum fluorescent display readout.

The 62000H series DC power supplies are very easy to operate either from the front panel keypad or from the remote controller via USB / RS232 / RS485 / APG (Standard) and GPIB & Ethernet (optional). Its compact size with 3U only can be stacked on a bench in a standard rack without any difficulty.

Another unique capability of the 62000H supplies is their ability to create complex DC transient waveforms. This capability allows devices to be tested to DC voltage dropouts, spikes and other voltage variations making them an ideal choice for aerospace device testing, inverter testing and other devices which will experience voltage interrupts. Applications include DC/DC Converter & Inverter voltage drop test, engine start-up simulation, battery automated charging, electronic product life cycle test, etc.

MODEL 62000H SERIES

Key Features :

- Power range: 5KW / 10KW / 15KW
- Voltage range: 0 ~ 1000V
- Current range: 0 ~ 375A
- High power density (15KW in 3U)
- Easy Master / Slave parallel & series operation up to 150KW
- Precision V&I Measurements
- High-speed programming
- Voltage & Current slew rate control
- Digital encoder knobs, keypad and function keys
- Current sharing operation
- Voltage ramp function (time range: 10 ms ~ 99 hours)
- Auto Sequencing Programming: 10 programs / 100 sequences
- OVP, current limit, thermal protection
- Standard analog programming interface
- Standard USB / RS232 / RS485 interface
- Optional GPIB / Ethernet interface
- Remote output ON / OFF (I / P)
- Remote sense line drop compensation
- LabView and Labwindows
- Solar array simulation function
- Shade I-V curve simulation
- I-V curve programming: 10 program / 100 I-V files
- CE Certified

APG RS-485 RS-232 Ethernet GPIB USB CE

ELECTRICAL SPECIFICATIONS -1

Model	62075H-30	62050H-40	62050H-450	62050H-600	62100H-30	62100H-40	62100H-450
Output Ratings							
Output Voltage	0-30V	0-40V	0-450V	0-600V	0-30V	0-40V	0-450V
Output Current	0-250A	0-125A	0-11.5A	0-8.5A	0-375A	0-250A	0-23A
Output Power	7500W	5000W	5000W	5000W	11250W	10000W	10000W
Line Regulation							
Voltage	±0.01% F.S.						
Current	±0.05% F.S.						
Load Regulation							
Voltage	±0.02% F.S.						
Current	±0.1% F.S.						
Voltage Measurement							
Range	6V / 30V	8V / 40V	90V / 450V	120V / 600V	6V / 30V	8V / 40V	90V/450V
Accuracy	0.05% + 0.05% F.S.						
Current Measurement							
Range	50A / 250A	25A / 125A	2.3A / 11.5A	1.7A / 8.5A	75A / 375A	50A / 250A	4.6A/23A
Accuracy	0.1% + 0.1% F.S.						
Output Noise & Ripple							
Voltage Noise (P-P)	60mV	60mV	300mV	350mV	60mV	60mV	300mV
Voltage Ripple (rms)	15mV	15mV	450mV	600mV	15mV	15mV	450mV
Current Ripple (rms)	100mA	50mA	20mA	15mA	150mA	100mA	40mA
OVP Adjustment Range							
Range	0-110% programmable from front panel, remote digital inputs						
Accuracy	±1% of full-scale output						
Programming Response Time							
Rise Time: Full Load	6ms	8ms	60ms	60ms	6ms	8ms	60ms
Rise Time: No Load	6ms	8ms	60ms	60ms	6ms	8ms	60ms
Fall Time: Full Load	6ms	8ms	60ms	60ms	6ms	8ms	60ms
Fall Time: 10% Load	100ms	100ms	250ms	250ms	100ms	100ms	250ms
Fall Time: No Load	1s	1s	2.5s	2.5s	1s	1s	2.5s
Slew Rate Control							
Voltage slew rate range	0.001V/ms ~ 5V/ms	0.001V/ms ~ 5V/ms	0.001V/ms ~ 7.5V/ms	0.001V/ms ~ 10V/ms	0.001V/ms ~ 5V/ms	0.001V/ms ~ 5V/ms	0.001V/ms ~ 7.5V/ms
Current slew rate range	0.001A~1A/ms, or INF	0.001A~1A/ms, or INF	0.001A~0.1A/ms, or INF	0.001A~0.1A/ms, or INF	0.001A~1A/ms, or INF	0.001A~1A/ms, or INF	0.001A~0.1A/ms, or INF
Minimum transition time	0.5ms						
Transient Response Time	Recovers within 1ms to +/~0.75% of steady-state output for a 50% to 100% or 100% to 50% load change(1A/μs)						
Efficiency	0.87(Typical)						
Drift (30 minutes)							
Voltage	0.04% of Vmax						
Current	0.06% of Imax						
Drift (8 hours)							
Voltage	0.02% of Vmax						
Current	0.04% of Imax						
Temperature Coefficient							
Voltage	0.04% of Vmax/°C						
Current	0.06% of Imax/°C						

Ultra-High Stability
DC Power Supply

MODEL 62075H-30N

Key Features :

- Power range : 7.5kW
- Voltage range: 0 ~ 30V
- Current range: 0 ~ 250A
- High power density (7.5KW in 4U)
- Easy Master/Slave parallel operation up to 30V/750A
- Easy Master/Slave series operation up to 60V/250A
- Current stability : 2.5mA(10ppm)
- High-resolution current programming & Measurement: 20bit DAC/24bit ADC
- Current Slew Rate Control
- Output current waveform digitizing
- OVP, Current Limit, Thermal protection
- Standard USB Interface
- Optional Ethernet/LXI interface
- Safety interlock & Remote inhibit control (I/P)
- Magnet power supply application
- CE Certified

ULTRA-HIGH STABILITY DC POWER SUPPLY MODEL 62075H-30N

62075H-30N of ultra-high stability DC power supply offers many unique advantages for magnet power supply system in synchrotron application. These advantages include excellent current stability of 1.25mA/0.5 hour and 2.5mA/8 hour, extremely low current ripple of 2.5mA, current reproducible within 10mA, precision setting and readback of output current via 20 bit DAC/24 bit ADC.

The 62075H-30N output power has maximum 7.5kW/30V/250A power module designed with 4U height that can be connected easily as master or slave with three units to 22.5kW/30V/750A in parallel or two units to 15kW/60V/250A in series and operated as a standalone unit via system bus.

The 62075H-30N provides stable DC output current source and power for precision measurement. It offers an advanced 250A/30V ultra high-stable ±10 ppm (current stability ±1.25 mA) with high efficiency and high power factor in compliance with energy savings. In addition it has a 20 bit digital control with bright vacuum fluorescent display readout.

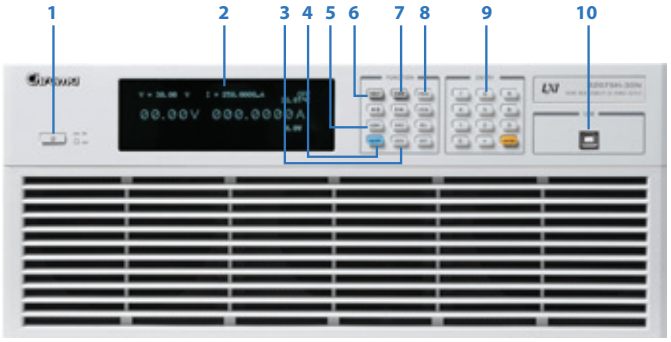
The 62075H-30N ultra-high stability power supply is very easy to operate from either the front panel keypad or the remote controller via USB (standard) and Ethernet/LXI (optional). Its compact size with 4U only can be used on a bench or installed in a standard rack without any difficulty.

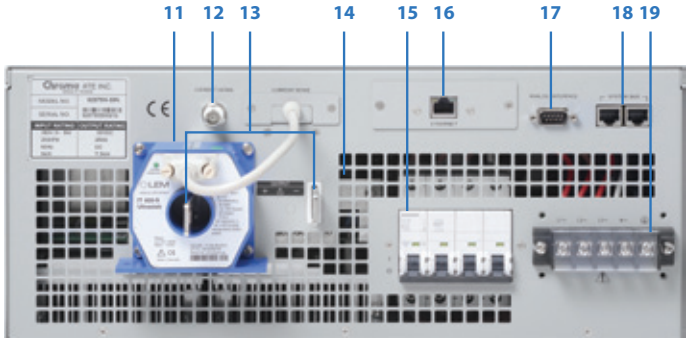
The features of the 62075H-30N includes current mode with dual loops control. It is able to provide a stable and fast output response providing excellent protection for different load variations.

The self-diagnosis routine and full protections against voltage phase loss, over/under voltage at input, over voltage/current at output, over power, over temperature, fan fail and remote inhibit ensure the quality and reliability for even the most demanding magnet power supply system in synchrotron.

Ethernet LXI USB CE

PANEL DESCRIPTION





1. **POWER Switch**
2. **VFD Display**
   Display setting, readings and operating status
3. **LOCK Key**
   Lock all settings
4. **OUTPUT Key**
   Enable or disable the output
5. **CONFIG Key**
   Set the system configuration
6. **VOLTAGE Key**
   Set the output voltage
7. **CURRENT Key**
   Set the output current
8. **PROG Key**
   Set the waveform editing
9. **NUMERIC Key**
   Set the data
10. **USB interface port**

11. **DCCT**
    Current transducer device
12. **BNC Connector**
    Analog output 0-10V for current measurement
13. **OUTPUT Terminal**
    Connect the output cable to a UUT
14. **System Fan**
    With fan speed control
15. **Input AC Breaker**
16. **ETHERNET Interface**
17. **Analog interface**
    Digital signal I/O
18. **System Bus**
    For master/slave parallel and series control
19. **AC Input Terminal**

ELECTRICAL SPECIFICATIONS

Model	62075H-30N
Output Ratings	
Output Voltage	30V max.
Output Current *1	0~250A
Output Power	7500W
Line Regulation	
Current	±5mA
Voltage Measurement	
Range	0~30V
Accuracy	±20mV
Current Measurement	
Range	0~250A
Accuracy	±10mA
Output Ripple	
Current Ripple (P-P) (1 ~ 1kHz)	±2.5 mA
OVP Protection	
Range	0 ~ 110% Programmable
Accuracy	±1% of full scale output
Slew Rate Control	
Current slew rate range	0.001A/ms ~ 0.1A/ms
Efficiency	0.85%
Stability *2	
Current (0~30 minutes)	±1.25 mA (5ppm)
Current (0~8 hours)	±2.5 mA (10ppm)
Programming &Measurement Resolution	
Current programming	20 bits ± 1LSB
Current measurement	24 bits ± 1LSB
Voltage measurement	16 bits ± 1LSB

Note *1: The operating output current range that complies with the specification is 20 ~ 250A.
Note *2: The test condition of output specification is the power supply ON over 2 hours, load = 14.3mH/76.28 mohm or 26mH/82.52mohm.

GENERAL SPECIFICATIONS

Model	62075H-30N
Remote Interface	
Ethernet Interface	Optional
USB Interface	Standard
System bus	Standard for master/slave control
Programming Accuracy*2	
Current	± 10 mA
Programming Response Time	
Iout setting	Ethernet send command to DC source receiver <20ms
Measure V&I	Under Ethernet command using Measure <25ms
System Interface (I/O)	
Current monitor output (O/P)	0~10Vdc
System Fault Indicator(O/P)	TTL: Active High
Safety interlock (I/P)	Time accuracy: <100ms
Remote inhibit (I/P)	TTL: Active High
Series & Parallel Operation	Series: two units / Parallel: three units
Sine Wave Programming	
Frequency range	0.1 ~ 20.0Hz
Amplitude	0 ~ 4A
OFFSET range	5 ~ 248A
Digitizing Current Waveform Data	
Sampling time	1k/2k/4k/5k/10k
Sampling point	2 ~ 65535
Trigger source	SW/ALARM/HW
Input Specification	
AC input voltage 3phase, 4 wire + ground	380Vac (operating range 342 ~ 418 Vac)
AC frequency range	47 ~ 63Hz
Max current (each phase)	17.5A
AC input voltage relative phase asymmetry factor	± 1.5%
General Specification	
Storage temperature range	0˚C ~ 50˚C
Operating temperature range	25˚C ± 2˚C
Relative humidity	30% to 90%
Dimension (HxWxD)	177mm x 428mm x 590mm / 6.97 x 16.85 x 23.23 inch
Weight	Approx. 34kg / 74.96 lbs

Note *1: The operating output current range that complies with the specification is 20 ~ 250A.
Note *2: The test condition of output specification is the power supply ON over 2 hours, load = 14.3mH/76.28 mohm or 26mH/82.52mohm.

MODULAR DC POWER SUPPLY
MODEL 62000B SERIES

62000B series of Modular DC Power Supplies offer many unique features for Burn-in and plating/electrolysis applications. The features include a N+1 redundancy, high power densities, hot-swappable maintenance, remote ON/OFF and programmable control via the CAN bus.

The 62000B family offers 5 types of power module with ranging from 1V to 150V, current from 10A to 90A, and offers two mainframe type of six and three position. The six position mainframe can envelop in up to six power modules paralleled operation for 9KW power output. The 62000B can easily parallel up to fourteen mainframe to 120KW with current sharing and CAN bus control for bulk power applications.

The Modular DC Power Supplies of 62000B are very cost effective with high power density and low current ripple. These instruments have be designed for burn-in applications such as the LCD panels, DC-DC converters, power inverters, notebook computers, battery chargers and many other types of electronic devices.

Modern power factor correction circuitry is incorporated in 62000B providing an input power factor above 0.98 to meet the IEC requirements. This PFC correction circuity not only reduces the input current draw and to greatly reduce generation of input current harmonics. Optional graphic Soft Panels and CAN bus control allow for control and monitoring of the power system using an easy to use graphical interface.

MODEL 62000B SERIES

Key Features :

- Voltage range: 1 ~ 150V
- Current range: Up to 2000A (System)
- Power range up to 1.5KW per module up to 120KW per system
- High Power Density (464 mW / cm^3 = 7.13 W/In^3)
- N+1 Redundancy
- Hot-swappable
- Ideal for Burn-in & Plating
- Remote Sense
- Remote ON / OFF
- CAN Bus Control
- DC OK Signal Output

USB GPIB APG RS-485 Ethernet CAN CE

SPECIFICATIONS

Model	62015B-15-90	62015B-30-50	62015B-60-25	62015B-80-18	62015B-150-10
Electrical Specifications					
Output Ratings					
Output Power	1350W	1500W	1500W	1440W	1500W
Output Voltage	1~15V	1~30V	1~60V	1~80V	1~150V
Output Current	1~90A	1~50A	1~25A	1~18A	1~10A
Line Regulation	0.1% FS				
Load Regulation *1	1% FS				
Programming Accuracy	1% FS				
Measurement Accuracy	1% FS				
Output Noise (20MHz)					
Voltage Noise (P-P)	100mV	100mV	200mV	200mV	400mV
Voltage Ripple (rms)	30mV	30mV	50mV	50mV	100mV
Current Ripple (rms)	0.9A	0.5A	0.25A	0.18A	0.1A
Efficiency	> 87% @ full load	> 88% @ full load			
Turn on over shoot voltage *2	5% of nominal output				
Transient Response Time *3	< 5 ms				
AC Input Voltage					
Six Position Mainframe	187 ~ 250 Vac (3 Phase 4 Wire, △ Connection) or 323 ~ 437 Vac (3 Phase 5 Wire, Y Connection) / 45 ~ 65 Hz				
Three Position Mainframe	187 to 250 Vac (single phase) / 45 ~ 65 Hz				
Input Power Factor	> 0.98@ full load				
Protection Function					
OVP	Automatically shuts down at 115% of set value				
Adjustment Range	1~16V	1~31V	1~65V	1~83V	1~155V
OCP	Current limit (0 ~ 100%) / OCP Shutdown at 115% of F.S.				
OTP	Automatically shuts down if internal limit is reached				
I/O Signal					
Remote ON/OFF (I/P)	Dry contact (closed = enabled), vice versa				
AUX Voltage	4 ~ 24V / 0.5A at mainframe (by trimmer adjust voltage)				
DC OK Signal Type (O/P)	Dry contact (closed = enabled) (Error : OVP / OCP / OTP / AC Fault)				
Programming Response Time *4 (Typical)					
Rise Time (Full Load)	For a programmed 5% to 95% step in output voltage : 100ms				
Rise Time (No Load)	For a programmed 5% to 95% step in output voltage : 100ms				
Fall Time (Full Load)	For a programmed 95% to 5% step in output voltage : 40ms				
Fall Time (No Load)	For a programmed 95% to 5% step in output voltage : 5s				
Vout Setting	CAN Bus send command to DC module receiver : 1s				
Measurement V & I	Under CAN command using fetch : 100ms				
Delay Time	For output ON/OFF enable and disable (under CAN command) : 5s(Single Mainframe)				
General Specifications					
Remote Sensing	3V max. line loss compensation				
Parallel Operation	Current Sharing (±5%)				
Operating Temperature	0 ~ 50℃				
Humidity Range	0 ~ 90% RH. Non-condensing				
Remote Interface	CAN Bus (optional)				
Safety & EMC	CE				
Dimension (H x W x D)	Mainframe : 175.6 x 443.9 x 466.2 mm / 6.91 x 17.48 x 18.35 inch (62000B-6-1) Mainframe : 175.6 x 239.9 x 466.2 mm / 6.91 x 9.44 x 18.35 inch (62000B-3-1) Module : 138.5 x 67.5 x 377.5 mm / 5.45 x 2.66 x 14.86 inch				
Weight	Mainframe : 14 Kg / 30.8 lbs (62000B-6-1) Mainframe : 8 Kg / 17.6 lbs (62000B-3-1) Module : 4 Kg / 8.8 lbs				

All specifications are subject to change without notice. Please visit our website for the most up to date specifications.

Note*1 : For 50% step load variation with remote sense at maximum output voltage
Note*2 : based on rise time of 100ms
Note*3 : Time for the output voltage to recover within 1% of its rated for a load changed of 25%
Note*4 : Six Position Mainframe through CAN

SPECIFICATIONS

A620007 Control & Supervisor Unit	
Setting Item	Output voltage setting (V set + Rotary)
	Output current limit setting (I set + Rotary)
	Over voltage protection setting (OVP_SET) (Default : 115% Vmax.)
	Output ON/OFF
	OCP selection : CC mode or Shutdown (By Dip switch selection at rear panel)
	Max. output current setting (I max)
Measurement Display Item	Output voltage display (7 segment LED)
	Output current display (7 segment LED)
	Operating mode indicator : CV or CC
	Output ON/OFF indicator
	Max. output current display (I max button)
Alarm Indicator Item	CSU : Over voltage protection
	CSU : Over temperature protection
	AC fault alarm
	Power module fault alarm
Remote Control Interface	
CAN Bus	Standard
Ethernet	Optional
Analog Programming Interface (Standard)	Setting voltage (A/I) : 0-10Vdc or 0-1 mA of FS (Resolution : 12 bits, Accuracy : 1% FS) Setting current (A/I) : 0-10Vdc or 0-1 mA of FS (Resolution : 12 bits, Accuracy : 1% FS) Monitor voltage (A/O) : 0-10V of FS (Resolution : 12 bits, Accuracy : 1% FS) Monitor current (A/O) : 0-10V of FS (Resolution : 12 bits, Accuracy : 1% FS)
Remote Output ON/OFF	Dry contact
Output ON/OFF Indicator	Active High
CV or CC mode Indicator	TTL Level High=CV mode ; TTL Level Low=CC mode
OTP Indicator	Active High
System Fault Indicator	Active High
I/O Control Interface	I/O : I/P=10 , O/P=10
I/P Definition	
Pin 1 & 2	Temperature sensor for bulk power system rack A (Active : open / default : short)
Pin 3 & 4	Temperature sensor for bulk power system rack B (Active : open / default : short)
Pin 5 & 6	Emergency stop for bulk power system
Pin 7~20	Reserved
O/P Definition	
Pin 1 & 2	OVP
Pin 3~20	Reserved
AC Input Voltage	Single phase 187-253VAC
Dimension	High(2U) x width(19")

All specifications are subject to change without notice. Please visit our website for the most up to date specifications.

Programmable
DC Power Supply

MODEL 62000P SERIES

Key Features:

- Wide range of voltage & current combinations with constant power
- Voltage range : 0 ~ 600V
  Current range : 0 ~ 120A
  Power range : 600W, 1200W, 2400W, 5000W
- Digital encoder knobs, keypad and function keys
- Power Factor Correction (0.95)
- High-speed Programming
- Precision V&I Measurements
- Current sharing for parallel operation with Master/Slave Control
- Voltage Ramp function : Time Range (10ms~99hours)
- Auto Sequencing Programming : 10 Programs / 100 Sequences / 8 bit TTL
- Voltage & Current Slew Rate Control
- OVP, Current Limit, Thermal protection
- Remote sense, 5V line loss compensation
- APG (Analog Programmable Interface) with Isolated Analog Interface Card
- Optional GPIB control with SCPI
- Optional Ethernet interface
- Standard RS-232 & USB interface
- LabView and Labwindows
- CE Certified
- Standard USB interface

PROGRAMMABLE DC POWER SUPPLY MODEL 62000P SERIES

62000P Series of programmable DC power supplies offer many unique advantages for ATE integration and testing. These advantage include a constant power operating envelope, precision readback of output current and voltage, output trigger signals as well as the ability to create complex DC transients waveforms to test device behavior to spikes, drops, and other voltage deviations.Designed for automated testing DC-DC converters and similar products, the 62000P sets a new standard for high accuracy programmable DC supplies.

The 62000P Series includes 12 different models ranging from 600W to 5000W, up to 120A and up to 600V. Due to their constant power operating envelope a single instrument can provide both high voltage/low current AND low voltage/high current thereby reducing the number of supplies needed in typical ATE applications.

The 62000P Series also includes 16 bit readback capability for accurate voltage and current readings. This means systems no longer need complex shunt/multiplexers to make accurate readings of the UUT's input parameters. The instruments also include I/O ports providing 8 bit TTLs, DC-ON, fault output signal and remote inhibit as well as a output trigger signal for system timing measurements.

Another unique capability of the 62000P Series supplies is their ability to create complex DC transient waveforms. This capability allows devices to be tested to DC voltage dropouts, spikes and other voltage variations making them an ideal choice for airborne device testing, inverter testing and other devices which will experience voltage interrupts. Applications include DC/DC Converter & Inverter voltage drop test, engine start-up simulation, battery automated charging, electronic product life cycle test, and etc.

SPECIFICATIONS -1

Model	62006P-30-80	62006P-100-25	62006P-300-8	62012P-40-120	62012P-80-60	62012P-100-50
Output Ratings						
Output Voltage	0~30V	0~100V	0~300V	0~40V	0~80V	0~100V
Output Current	0~80A	0~25A	0~8A	0~120A	0~60A	0~50A
Output Power	600W	600W	600W	1200W	1200W	1200W
Line Regulation						
Voltage	0.01%+2mV	0.01%+6mV	0.01%+18mV	0.01%+2mV	0.01%+8mV	0.01%+10mV
Current	0.01%+25mA	0.01%+5mA	0.03%+20mA	0.01%+25mA	0.01%+10mA	0.01%+12mA
Load Regulation						
Voltage	0.01%+3mV	0.01%+10mV	0.01%+50mV	0.01%+3mV	0.01%+12mV	0.01%+18mV
Current	0.01%+10mA	0.01%+5mA	0.03%+40mA	0.01%+10mA	0.01%+20mA	0.01%+28mA
Voltage Measurement						
Range	6V/30V	20V/100V	60V/300V	8V/40V	16V/80V	20V/100V
Accuracy	0.05% + 0.05%F.S.	0.05% + 0.05%F.S.	0.05% + 0.05%F.S.	0.05% + 0.05%F.S.	0.05% + 0.05%F.S.	0.05% + 0.05%F.S.
Current Measurement						
Range	16A/80A	5A/25A	1.6A/8A	24A / 120A	12A/60A	10A/50A
Accuracy	0.1% + 0.2%F.S.	0.1% + 0.2%F.S.	0.1% + 0.1%F.S.	0.1% + 0.1%F.S..	0.1% + 0.1%F.S.	0.1% + 0.1%F.S.
Output Noise (0 ~ 20MHz)						
Voltage Ripple (P-P)	60 mV	85 mV	180 mV	90 mV	100 mV	100 mV
Voltage Ripple (rms)	8 mV	10 mV	90 mV	10 mV	10 mV	15 mV
Current Ripple (rms)	60 mA	10 mA	60 mA	120 mA	30 mA	20 mA
OVP Adjustment Range	110% of Vset to 110% of Vmax	110% of Vset to 110% of Vmax	110% of Vset to 110% of Vmax	110% of Vset to 110% of Vmax	110% of Vset to 110% of Vmax	110% of Vset to 110% of Vmax
Slew Rate Range						
Voltage (with USB)	0.001V - 5V/ms	0.001V - 10V/ms	0.01V - 10V/ms	0.001V - 5V/ms	0.001V - 10V/ms	0.001V - 10V/ms
Current (with USB)	0.001A - 1A/ms	0.001A - 1A/ms	0.001A - 1A/ms	0.001A - 1A/ms	0.001A - 1A/ms	0.001A - 1A/ms
Programming Response Time (Typical)						
Rise Time (Full & No Load)	6 ms	10 ms	30 ms	8 ms	8 ms	10 ms
Fall Time	350ms(max)	300 ms(max)	2.5 s(max)	460 ms(max)	240 ms(max)	300 ms(max)
Efficiency	0.75	0.75	0.75	0.8	0.8	0.8
Drift (8 hours)						
Voltage	0.02% of Vmax	0.02% of Vmax	0.02% of Vmax	0.02% of Vmax	0.02% of Vmax	0.02% of Vmax
Current	0.04% of Imax	0.04% of Imax	0.04% of Imax	0.04% of Imax	0.04% of Imax	0.04% of Imax
Temperature Coefficient						
Voltage	0.02% of Vmax/˚C	0.02% of Vmax/˚C	0.02% of Vmax/˚C	0.02% of Vmax/˚C	0.02% of Vmax/˚C	0.02% of Vmax/˚C
Current	0.04% of Imax/˚C	0.04% of Imax/˚C	0.04% of Imax/˚C	0.04% of Imax/˚C	0.04% of Imax/˚C	0.04% of Imax/˚C
Transient Response Time	3 mS	3 mS	3mS	3mS	3 mS	3 mS
10 % step change	150 mV	180 mV	600 mV	150 mV	250 mV	250 mV
Voltage limit @ Series Mode	150V	500V	800V	200V	400V	500V
AC Input Voltage Ranges	95 to 250Vac	95 to 250Vac	95 to 250Vac	95 to 250Vac	95 to 250Vac	95 to 250Vac
Operating Temperature	0~40˚C	0~40˚C	0~40˚C	0~40˚C	0~40˚C	0~40˚C
Dimension (H x W x D)	89 x 430 x 425 mm / 3.5 x 16.93 x 16.73 inch					
Weight	12kg / 26.43 lbs	12.1 kg / 26.65 lbs	11.2 kg / 24.67 lbs	12kg / 26.43 lbs	13 kg / 28.63 lbs	12.1 kg / 26.65 lbs

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GENERAL SPECIFICATIONS

Programming & Measurement Resolution	
Voltage (Front Panel)	10 mV
Current (Front Panel)	10 mA
Voltage (Remote Interface)	0.003% of Vmax
Current (Remote Interface)	0.002% of Imax
Voltage (Analog Programming Interface)	0.04% of Vmax
Current (Analog Programming Interface)	0.04% of Imax
Programming Accuracy	
Voltage Programming (Front Panel and Remote Interface)	0.1% of Vmax
Voltage Programming (Analog Programming Interface)	0.2% of Vmax
Current Programming (Front Panel and Remote Interface)	0.3% of Imax
Current Programming (Analog Programming Interface)	0.3% of Imax
Programming Response Time	
Rise Time : For a programmed 5% to 95% step in output voltage.(Full & No Load)	See Electrical Specification
Fall Time : For a programmed 95% to 5% step in output voltage. (The fall time will be affected by the external loading from UUT.)	
Vout setting (USB send command to DC source receiver)	10ms
?Volt , ? Current (under USB command using Fetch)	10ms
?Volt , ? Current (under USB command using Measure)	70ms
Analog Programming Interface	
Voltage and Current Programming inputs	0~10Vdc or 0~5Vdc of F.S.
Voltage and Current monitor	0~10Vdc or 0~5Vdc of F.S.
Isolation : Maximum working voltage of any analog programming signal with respect to chassis potential.	70Vdc
Auxiliary Power Supply	
Output Voltage	12Vdc
Maximum Current Source Capability	10mA
Remote inhibit function (I/O)	
Use to disable the output of DC power supply; Active Low	TTL
DC-ON Output Signal	
Indicate the output status; Active High	TTL
Fault output signal	
Indicate if there is a fault/protection occurred; Active Low	TTL
Series & Parallel operation function with Master / Slave control	
Voltage limit @ Series Mode	See Electrical Specification
Number of DC Power Supplies allowed @ Master / Slave control mode	5
Auto Sequencing Programmable Function	
Number of program	10
Number of sequence	100
Time Range	5ms - 15,000S
TTL signal out	8 bits
TTL source capability	7 mA
Voltage Step Mode Programmable Function	
Start Voltage Range	0~full scale
End Voltage Range	0~full scale
Total Run Time Range (hhh:mm:ss.sss)	10ms - 99 hours
Slew Rate Control Function	
Voltage slew rate range (The fall slew rate will be affected by the discharge rate of the output capacitors especially under no load condition.)	See Electrical Specification
Current slew rate range	See Electrical Specification
Minimum transition time.	0.5 ms
Remote Sense	
Line loss compensation	5V

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