



- Output voltage: 10 V up to 1500 V;
- Output current: 3.5 A to 12000 A;
- Output power: 4 kW up to 600 kW;
- 15 kW/3U high power density, constant power output;
- 0.1%+0.1%F.S. and 0.1%+0.2%F.S. accuracy for voltage and current measurement respectively;
- 10 user programmable sequence files, each support up to 100 steps;
- 1ms typical transient response, Voltage & current slew rate control;
- CV / CC priority start (prevents voltage or current overshoot with output ON);
- Internal resistance simulating, voltage remote sense compensation;
- Optional analog programming & monitoring interface;
- \pm OVP, \pm OCP, \pm OPP, OTP, \pm LVP, Foldback protection, as well as voltage / current limit;
- Standard LAN, RS232, optional GPIB ports;
- SCPI and ModBus RTU protocol;
- TFT color LCD display.

General

GT series DC power supplies adopt modular architecture, which simplifies sparing and maintenance. The series offer a high power density, with 15 kW in a 3U chassis, output power ranges from 4 kW to 600 kW, voltage ranges from 10 V to 1500 V, and current up to 12000 A. Most importantly, its 10 V, 15V low voltage high current output makes it ideal for testing of sensors, superconducting materials, cables, etc..

The GT series provide accurate output, fast transient response, low ripple noise, excellent line and load regulation, fast and precise programmability. With 4.3-inch color TFT screen, full keypad and rotary knob, convenient for benchtop users. In addition, this series offer standard LAN and RS232 interfaces support both SCPI and Modbus protocol, which is ideal for automate d test systems.

Furthermore, the GT series come standard with user programmable sequence, CV or CC priority start, CV -to-CC or CC -to-CV foldback and built-in test routines for battery internal resistance simulation, etc., to name a few. In conclusion, GT series delivers unsurpassed quality with premium features at an affordable price, and models of large output power are provided in a convenient rack -mount cabinet with casters.

AC input

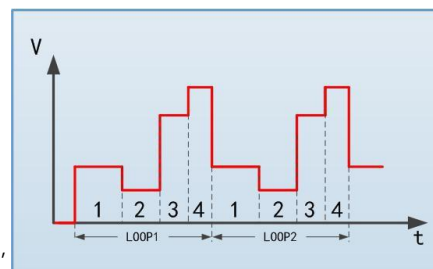
All models are designed for a usage in three-phase 340 VAC ~ 420 VAC input, power supply efficiency is larger than 87%.

15kW/3U high power density

The GT series provides a high power density of 15kW/3U, with features such as accurate output, fast response, and low ripple noise.

Programmable sequence

All models provides users with a programmable sequence function, which can simulate power supply interruptions, instantaneous drops, and other voltage and current changes. The sequence feature allows users to program a list of steps to the power supply's internal memory and execute them. A total of 100 steps can be allocated to each internal memory location, up to a maximum of 10 locations (sequences). The test sequence can be programmed locally through the keypad and rotary knob. Test sequences can be linked, as well as configured for single or repeated execution. Each steps' settings include voltage, current, duration, the duration time range is 1ms...86400 s.

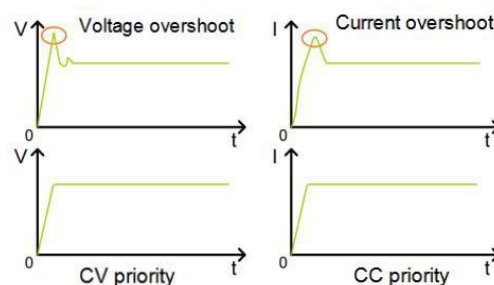


Internal resistance simulating

All models can simulate the output characteristic of battery by setting the internal resistance. When the output current of the power supply increases, the output voltage will be adjusted automatically according to the preset internal resistance value.

CV / CC priority

When power supply is connected to an inductive or capacitive load, it will cause voltage or current overshoot, which may trigger the protection of the device under test, or even cause the device under test to be damaged in severe cases. This series power supply provides CC priority and CV priority function, which forces the power supply to operate in CC or CV mode at the moment the output is turned on, effectively avoids the current or voltage overshoot resulted from capacitive or inductive load.



Optional analog programming and monitoring interface

In addition to front panel and remote interface control, there is a galvanically isolated analog interface terminal, located on the rear of the device. It offers analog inputs to set voltage, current from 0...100% through control voltages of 0 V...10 V or 0 V...5 V. To monitor the output voltage and current, there are analog outputs with 0 V...10 V or 0 V...5 V. Also, several inputs and outputs are available for controlling and monitoring the device status. The controlling speed of analog programming is 1000 points per second.

Protective features

For protection of the equipment connected, the series provide programmable protection functions such as OVP, OCP, OPP and LVP. Moreover, there are built-in hardware protection function OTP. If a protection is triggered, the DC output will be shut off immediately and a status signal will be prompt on the display and via the interfaces. Similarly, foldback protection is used to disable the output when a transition is made between the CC and CV operating modes. The DC output will be shut off and locked in foldback mode after a specified delay if the power supply transitions into CV or CC mode, depending on the foldback mode settings. This feature is particularly useful for protecting current or voltage sensitive loads.

Digital interfaces

All models features two galvanically isolated digital interfaces by default, these are standard LAN and RS232 (optional GPIB interface). LAN and RS232 can be used to control and monitor the devices either with SCPI language commands or ModBus RTU protocol, while with GPIB only SCPI is supported.

GT Series (4 kW...600 kW)
Control software

The series provide a control software for Windows PCs, which can read test data, generate images, export reports, print reports, etc. in real time, it is convenient for customers to use.

Options

Digital interface modules for GPIB;

Analog programming and monitoring interface;

Anti backflow current module (Configurable for models of 50V or above).

Model options

* Other voltage range models such as 75V/80V/120V/150V/200V are not listed.

* Models with rated power larger than 120kW are not listed.

Voltage	Model	Current	Power	Voltage	Model	Current	Power	Voltage	Model	Current	Power
10V	GT40-010	400A	4kW	15V	GT45-015	300A	4.5kW	20V	GT050-020	250A	5kW
	GT080-010	800A	8kW		GT90-015	600A	9kW		GT100-020	500A	10kW
	GT120-010	1200A	12kW		GT135-015	900A	13.5kW		GT150-020	750A	15kW
	GT160-010	1600A	16kW		GT180-015	1200A	18kW		GT200-020	1000A	20kW
	GT200-010	2000A	20kW		GT225-015	1500A	22.5kW		GT250-020	1250A	25kW
	GT240-010	2400A	24kW		GT270-015	1800A	27kW		GT300-020	1500A	30kW
	GT360-010	3600A	36kW		GT405-015	2700A	40.5kW		GT450-020	2250A	45kW
	GT480-010	4800A	48kW		GT540-015	3600A	54kW		GT600-020	3000A	60kW
	GT600-010	6000A	60kW		GT675-015	4500A	67.5kW		GT900-020	4500A	90kW
	GT1200-010	12000A	120kW		GT1080-015	7200A	108kW		GT1200-020	6000A	120kW
Voltage	Model	Current	Power	Voltage	Model	Current	Power	Voltage	Model	Current	Power
30V	GT050-030	167A	5kW	40V	GT050-040	125A	5kW	50V	GT050-050	100A	5kW
	GT100-030	334A	10kW		GT100-040	250A	10kW		GT100-050	200A	10kW
	GT150-030	500A	15kW		GT150-040	375A	15kW		GT150-050	300A	15kW
	GT200-030	667A	20kW		GT200-040	500A	20kW		GT200-050	400A	20kW
	GT250-030	833.5A	25kW		GT250-040	625A	25kW		GT250-050	500A	25kW
	GT300-030	1000A	30kW		GT300-040	750A	30kW		GT300-050	600A	30kW
	GT450-030	1500A	45kW		GT450-040	1125A	45kW		GT450-050	900A	45kW
	GT600-030	2000A	60kW		GT600-040	1500A	60kW		GT600-050	1200A	60kW
	GT900-030	3000A	90kW		GT900-040	2250A	90kW		GT900-050	1800A	90kW
	GT1200-030	4000A	120kW		GT1200-040	3000A	120kW		GT1200-050	2400A	120kW
Voltage	Model	Current	Power	Voltage	Model	Current	Power	Voltage	Model	Current	Power
60V	GT050-060	83.5A	5kW	100V	GT050-100	50A	5kW	160V	GT050-160	31.5A	5kW
	GT100-060	167A	10kW		GT100-100	100A	10kW		GT100-160	62.5A	10kW
	GT150-060	250A	15kW		GT150-100	150A	15kW		GT150-160	94A	15kW
	GT200-060	333.5A	20kW		GT200-100	200A	20kW		GT200-160	125A	20kW
	GT250-060	417A	25kW		GT250-100	250A	25kW		GT250-160	156.5A	25kW
	GT300-060	500A	30kW		GT300-100	300A	30kW		GT300-160	188A	30kW
	GT450-060	750A	45kW		GT450-100	450A	45kW		GT450-160	281.5A	45kW
	GT600-060	1000A	60kW		GT600-100	600A	60kW		GT600-160	375A	60kW
	GT900-060	1500A	90kW		GT900-100	900A	90kW		GT900-160	562.5A	90kW
	GT1200-060	2000A	120kW		GT1200-100	1200A	120kW		GT1200-160	750A	120kW

GT Series (4 kW...600 kW)

Voltage	Model	Current	Power	Voltage	Model	Current	Power	Voltage	Model	Current	Power
250V	GT050-250	20A	5kW	300V	GT050-300	17A	5kW	400V	GT050-400	12.5A	5kW
	GT100-250	40A	10kW		GT100-300	33.5A	10kW		GT100-400	25A	10kW
	GT150-250	60A	15kW		GT150-300	50A	15kW		GT150-400	37.5A	15kW
	GT200-250	80A	20kW		GT200-300	67A	20kW		GT200-400	50A	20kW
	GT250-250	100A	25kW		GT250-300	83.5A	25kW		GT250-400	62.5A	25kW
	GT300-250	120A	30kW		GT300-300	100A	30kW		GT300-400	75A	30kW
	GT450-250	180A	45kW		GT450-300	150A	45kW		GT450-400	112.5A	45kW
	GT600-250	240A	60kW		GT600-300	200A	60kW		GT600-400	150A	60kW
	GT900-250	360A	90kW		GT900-300	300A	90kW		GT900-400	225A	90kW
	GT1200-250	480A	120kW		GT1200-300	400A	120kW		GT1200-400	300A	120kW
Voltage	Model	Current	Power	Voltage	Model	Current	Power	Voltage	Model	Current	Power
500V	GT050-500	10A	5kW	600V	GT050-600	8.5A	5kW	800V	GT050-800	6.5A	5kW
	GT100-500	20A	10kW		GT100-600	17A	10kW		GT100-800	12.5A	10kW
	GT150-500	30A	15kW		GT150-600	25A	15kW		GT150-800	19A	15kW
	GT200-500	40A	20kW		GT200-600	33.5A	20kW		GT200-800	25A	20kW
	GT250-500	50A	25kW		GT250-600	42A	25kW		GT250-800	31.5A	25kW
	GT300-500	60A	30kW		GT300-600	50A	30kW		GT300-800	37.5A	30kW
	GT450-500	90A	45kW		GT450-600	75A	45kW		GT450-800	56.5A	45kW
	GT600-500	120A	60kW		GT600-600	100A	60kW		GT600-800	75A	60kW
	GT900-500	180A	90kW		GT900-600	150A	90kW		GT900-800	112.5A	90kW
	GT1200-500	240A	120kW		GT1200-600	200A	120kW		GT1200-800	150A	120kW
Voltage	Model	Current	Power	Voltage	Model	Current	Power	Voltage	Model	Current	Power
1000V	GT050-1000	5A	5kW	1200V	GT050-1200	4.5A	5kW	1500V	GT050-1500	3.5A	5kW
	GT100-1000	10A	10kW		GT100-1200	8.5A	10kW		GT100-1500	7A	10kW
	GT150-1000	15A	15kW		GT150-1200	12.5A	15kW		GT150-1500	10A	15kW
	GT200-1000	20A	20kW		GT200-1200	17A	20kW		GT200-1500	13.5A	20kW
	GT250-1000	25A	25kW		GT250-1200	21A	25kW		GT250-1500	17A	25kW
	GT300-1000	30A	30kW		GT300-1200	25A	30kW		GT300-1500	20A	30kW
	GT450-1000	45A	45kW		GT450-1200	37.5A	45kW		GT450-1500	30A	45kW
	GT600-1000	60A	60kW		GT600-1200	50A	60kW		GT600-1500	40A	60kW
	GT900-1000	90A	90kW		GT900-1200	75A	90kW		GT900-1500	60A	90kW
	GT1200-1000	120A	120kW		GT1200-1200	100A	120kW		GT1200-1500	80A	120kW

Optional accessories table 1

Item	Model namesuffix	Notes
GPIB interface	G	
Analog interface	F	
Anti backflow current	D	Configurable for models of 50V or above

GT Series (4 kW...600 kW)

Optional accessories table 2: High current test cable matching table

Specification	RP2-2P15	RP16-2P20	RP25-2P25	RP50-2P20	RP50-2P40	RP20-2P20	RP150-2P20
Max voltage	750V						
Max current	10A	60A	100A	200A	200A	300A	400A
Terminal	M8/Alligator	M8/M8	M8/M8	M8/M8	M8/M8	M8/M8	M10/M10
Cross-sectional area	4.0mm ²	16mm ²	25mm ²	50mm ²	50mm ²	120mm ²	150mm ²
Length	~1.5m	~2m	~2m	~2m	~4m	~2m	~2m
Shape							

Specification

General specification	
Item	Specification
AC Input	3 Phase input, 340VAC ~ 420VAC, 47Hz ~ 63Hz
Output Voltage	0 ~ rated voltage (Max 1500V)
Output Current	0 ~ rated current (Max 10000A)
Output Power	0 ~ rated power (Max 600kW)
Efficiency	0.87(Typical)
Line Regulation	Voltage: 0.01%F.S.; Current: 0.05%F.S.
Load Regulation	Voltage: 0.02%F.S.; Current: 0.1%F.S.
Analog Programming	V/I control; Support programming voltage: DC 0 ~ 5V/DC 0 ~ 10V input
Voltage Measurement Accuracy	0.1%+0.1%F.S.
Current Measurement Accuracy	0.1%+0.2%F.S.
Voltage/Current Monitoring	Voltage/Current monitoring output voltage: DC 0 ~ 10V
Protection	OVP/OCP/OPP/RVP/LVP/OTP
Transient Response	Typical 1ms
Voltage Temperature Coefficient	20ppm/°C
Current Temperature Coefficient	40ppm/°C
Display	4.3" TFT color LCD
Operation	Function key, number key, and knobs
Communication	Standard RS232, LAN, optional GPIB
Memory capacity	20 groups of fast recall parameters + 10 sequence files+ 1 waveform file
Cooling	Air cooling
Working Temperature	0°C ~ 40°C
Storage Temperature	-20°C ~ 70°C
Altitude	<2000m

Specification - 1									
Model	GT045-015	GT050-020	GT050-030	GT050-040	GT050-050	GT050-060	GT050-100	GT050-160	GT050-250
Voltage	0~15V	0~20V	0~30V	0~40V	0~50V	0~60V	0~100V	0~160V	0~250V
Current	0~300A	0~250A	0~167A	0~125A	0~100A	0~83.5A	0~50A	0~31.5A	0~20A
Power	4.5KW	5KW							

GT Series (4 kW...600 kW)

Model	GT090-015	GT100-020	GT100-030	GT100-040	GT100-050	GT100-060	GT100-100	GT100-160	GT100-250		
Voltage	0~15V	0~20V	0~30V	0~40V	0~50V	0~60V	0~100V	0~160V	0~250V		
Current	0~600A	0~500A	0~334A	0~250A	0~200A	0~167A	0~100A	0~62.5A	0~40A		
Power	9KW	10KW									
Model	GT135-015	GT150-020	GT150-030	GT150-040	GT150-050	GT150-060	GT150-100	GT150-160	GT150-250		
Voltage	0~15V	0~20V	0~30V	0~40V	0~50V	0~60V	0~100V	0~160V	0~250V		
Current	0~900A	0~750A	0~500A	0~375A	0~300A	0~250A	0~150A	0~94A	0~60A		
Power	13.5KW	15KW									
Model	GT270-015	GT300-020	GT300-030	GT300-040	GT300-050	GT300-060	GT300-100	GT300-160	GT300-250		
Voltage	0~15V	0~20V	0~30V	0~40V	0~50V	0~60V	0~100V	0~160V	0~250V		
Current	0~1800A	0~1500A	0~1000A	0~750A	0~600A	0~500A	0~300A	0~188A	0~120A		
Power	27KW	30KW									
Model	GT540-015	GT600-020	GT600-030	GT600-040	GT600-050	GT600-060	GT600-100	GT600-160	GT600-250		
Voltage	0~15V	0~20V	0~30V	0~40V	0~50V	0~60V	0~100V	0~160V	0~250V		
Current	0~3600A	0~3000A	0~2000A	0~1500A	0~1200A	0~1000A	0~600A	0~375A	0~240A		
Power	54KW	60KW									
Model	◆	◆	◆	GT1200-040	GT1200-050	GT1200-060	GT1200-100	GT1200-160	GT1200-250		
Voltage	◆	◆	◆	0~40V	0~50V	0~60V	0~100V	0~160V	0~250V		
Current	◆	◆	◆	0~3000A	0~2400A	0~2000A	0~1200A	0~750A	0~480A		
Power	◆	◆	◆	120kW							
Model	◆	◆	◆	◆	◆	GT1500-060	GT1500-100	GT1500-160	GT1500-250		
Voltage	◆	◆	◆	◆	◆	0~60V	0~100V	0~160V	0~250V		
Current	◆	◆	◆	◆	◆	0~2500A	0~1500A	0~940A	0~600A		
Power	◆	◆	◆	◆	◆	150kW					
Model	◆	◆	◆	◆	◆	◆	GT2100-100	GT2100-160	GT2100-250		
Voltage	◆	◆	◆	◆	◆	◆	0~100V	0~160V	0~250V		
Current	◆	◆	◆	◆	◆	◆	0~2100A	0~1313A	0~840A		
Power	◆	◆	◆	◆	◆	◆	210kW				
Output Voltage Ripple											
V(p-p)	50mV	60mV	65mV	75mV	75mV	115mV	135mV	175mV	185mV		
V(rms)	20mV	20mV	20mV	20mV	20mV	25mV	25mV	25mV	35mV		
Voltage Programming											
Resolution	16Bits										
Accuracy	0.1%+0.1%F.S.										
Current Programming											
Resolution	16Bits										
Accuracy	0.1%+0.3%F.S.				0.1%+0.2%F.S.						
External Analog Programming											
Control Voltage	0~5V or 0~10V corresponds to 0~100%F.S.										
Voltage accuracy	0.2%F.S.										

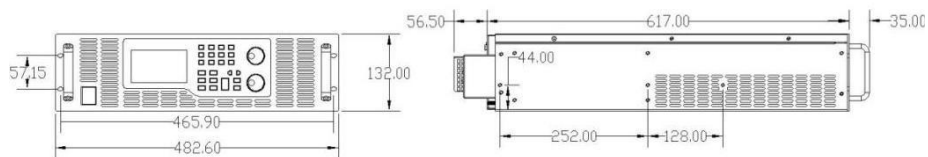
GT Series (4 kW...600 kW)

	300	400	500	600	800	1000	1200	1500
Voltage	0~300V	0~400V	0~500V	0~600V	0~800V	0~1000V	0~1200V	0~1500V
Current	0~400A	0~300A	0~240A	0~200A	0~150A	0~120A	0~100A	0~80A
Power	120kW							
Model	GT2100-300	GT2100-400	GT2100-500	GT2100-600	GT2100-800	GT2100-1000	GT2100-1200	GT2100-1500
Voltage	0~300V	0~400V	0~500V	0~600V	0~800V	0~1000V	0~1200V	0~1500V
Current	0~700A	0~525A	0~420A	0~350A	0~262A	0~210A	0~175A	0~140A
Power	210kW							
Output Voltage Ripple								
V(p-p)	200mV	300mV	350mV	350mV	500mV	650mV	750mV	850mV
V(rms)	40mV	50mV	50mV	60mV	80mV	100mV	120mV	140mV
Voltage Programming								
Resolution	16Bits							
Accuracy	0.1%+0.1%F.S.							
Current Programming								
Resolution	16Bits							
Accuracy	0.1%+0.2%F.S.							
External Analog Programming								
Control Voltage	0~5V or 0~10V corresponds to 0~100%F.S.							
Voltage accuracy	0.2%F.S.							
Current Accuracy	0.5%F.S.							
Output Accuracy	0.5%F.S.							
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								
Resolution	16Bits							
Accuracy	0.1%+0.1%F.S.							
Current Measurement								
Resolution	16Bits							
Accuracy	0.1%+0.2%F.S.							
OVP Setting								
Range	0~110%F.S.				Accuracy	1%F.S.		
Dimension W x H x D	(≤15kW): 482.6mm x 132.0mm x 694.5mm; (20kW ~30kW): 482.6mm x 265.9mm x 694.5mm ; (35kW~60kW): 482.6mm x 656mm x 710.5mm ; >60kW: adopts 600mm x XXX mm x 800mm standard cabinet							
Weight	18.5kg/5kW; 25kg/10kW; 31.5kg/15kW; 62kg/30kW; 123kg/60kW; other models please refer actual weight data.							

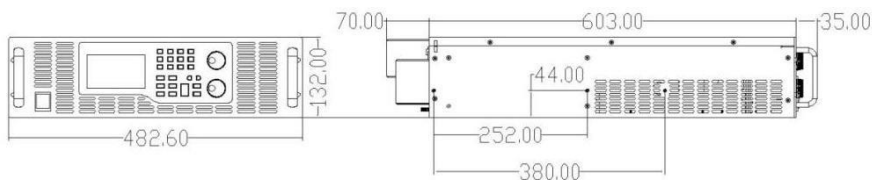
GT Series (4 kW...600 kW)

Dimension

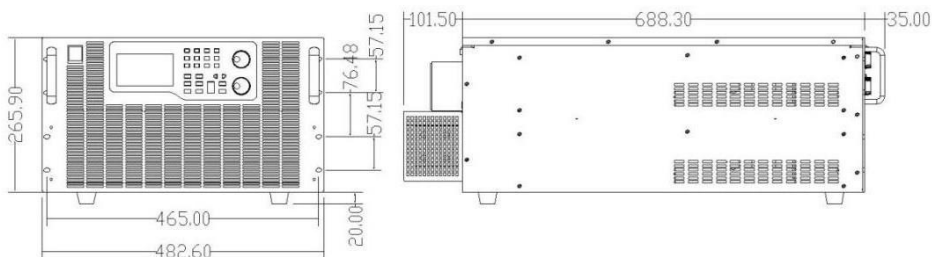
5kW ~ 15kW model dimension (models of 40V or below)



5kW ~ 15kW model dimension (models with voltage > 40V)



20kW ~ 30kW model dimension (models of 40V or below)



20kW ~ 30kW model dimension (models with voltage > 40V)

