GW INSTEK
Simply Reliable

ASR-6450/6600 Series

4.5/6/9/12/13.5/18/24/30/36 kVA High-Performance AC/DC Power Supply

CE | RS-232 | USB | LAN | CAN | Device Net | GPIB

From the very moment Alpha Go defeated the human chess champion with its ultra-high-speed computing capability, artificial intelligence technology (AI) has developed rapidly around the world. Today, servers with advanced AI functions process tremendous amounts of data under the high-speed computing architecture of 2 CPUs + 8 GPUs. servers require a huge amount of power to maintain high-speed computing! In order to meet this demand, the power, density and efficiency of server power supplies have been greatly improved. High-power server power modules require high-efficiency conversion and saving of power consumption. AC single-phase input, HVDC 400 V input or increased DC voltage output designs can be utilized to achieve this purpose. In order to ensure power stability when high-power servers are operating, power modules with hot-swappable redundant power supply specifications (such as CRPS) have been widely applied in server racks. Power modules with redundant functions require testing of multiple power modules at a time to ensure that all modules can maintain normal operation during high power output. Due to the rapid changes in the development of server power supplies GW Instek developed the brand new flagship model ASR-6000 series to meet customer needs. ASR-6000 series series has two models - ASR-6450 AC/DC 4.5 kVA and ASR-6600 series AC/DC 6 kVA.

ASR-6000 series is the first stand-alone unit from GW Instek that supports AC single/three-phase input and output, and has rated DC power output. The series employs third-generation semiconductor silicon carbide (SiC) technology to create a 4U 6 kVA high power density and high-performance AC/DC power source ASR-6000 series has the ability to emulate more diverse power environment changes, such as balanced three-phase and unbalanced three-phase, phase failure, and features multi-channel output function in three-phase output mode, programmable output impedance adjustment, and up to tens of thousands of arbitrary waveform outputs. The invincible launch of GW Instek flagship model ASR-6000 series demonstrates that GW Instek can provide a complete test solution for high-power AC sources. ASR-6000 series is the MVP of GW Instek power sources.and unbalanced three-phase, phase failure, and features multi-channel output function in three-phase output mode, programmable output impedance adjustment, and up to 253 types of arbitrary waveform outputs. The invincible launch of GW Instek flagship model ASR-6000 series demonstrates that GW Instek can provide a complete test solution for high-power AC sources. ASR-6000 series is the MVP of GW Instek power sources.

FEATURES

* Adopts Third-generation Semiconductor Silicon Carbide (SiC) Technology to Create a 4 U 6 kVA High-performance AC/DC Power Source with High Power Density
* AC Input Supports Single-phase and Three-phase, Phase Voltage 200 V to 240 V ±10% (Delta or Y Connection) ◉
* 10 output Modes: Including External Input Signal Frequency and Mains Synchronization (SYNC), External Voltage Controlled Internal Amplifier Output (VCA)
* Multi-channel Output Function
* Supports AC 1P2W, 1P3W, 3P4W Output
* AC Maximum Output Phase Voltage: 350 Vrms Line Voltage: 700 Vrms
* AC Balanced and Unbalanced Three-phase, Phase Failure Output Functions
* Programmable Output Impedance Adjustment ◉
* Dual-channel Voltage/Current Output Monitoring Function
* Voltage Output Rise Time Can be Adjusted in Three Ranges ◉
* Supports Sequence Editing and Emulation Output Mode
* Powerful Arbitrary Waveform Editing and Output Function, Built-in Over 253 Types of Arbitrary Waveform Outputs
* Advanced Web Server Control to Support Data Acquisition and Data Logger Both Functions
* 100th Order Harmonic Measurement Function
* Support Parallel Connection Type Up to 36 kVA Maximum
* Interfaces: RS-232C, USB, LAN; Opt: CAN BUS, DeviceNet, GPIB

◉ Stand-alone models only.

APPLICATIONS

* Server/Communication Power Supply
* 3.6 kW to 22 kW OBC (On Board Charger)
* Uninterruptible Power Supply System (UPS)
* Military Industry, Scientific Research, Education
* AC Inverter
* AC Motor Controllers and Protection Devices

Website | Facebook | Catalog

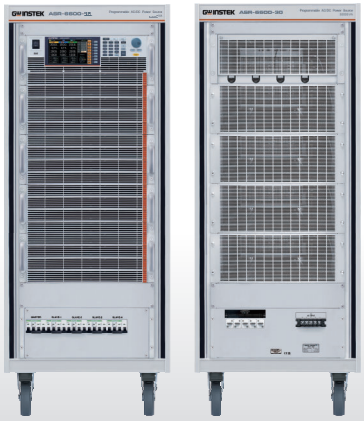
Model	ASR-6450	ASR-6600	ASR-6450-09	ASR-6450-13.5	ASR-6600-12	ASR-6600-18	ASR-6600-24	ASR-6600-30	ASR-6600-36
AC Input Voltage	Single/Three Phase 200 Vac to 240 Vac ±10 %		200 Vac to 240 Vac ±10 % (Phase Voltage) / 380 to 415 Vac ± 10 % (Line Voltage)						
AC Output Voltage	Phase Voltage 0 V to 350.0 V/Line Voltage 0 V to 700 V								
AC Output Current	1P2W 45 A/22.5 A 1P3W, 3P4W 15 A/7.5 A	1P2W 60 A/30 A 1P3W, 3P4W 20 A/10 A	1P2W 90 A/45 A 1P3W, 3P4W 30 A/15 A	1P2W 135 A/67.5 A 1P3W, 3P4W 45 A/22.5 A	1P2W 120 A/60 A 1P3W, 3P4W 40 A/20 A	1P2W 180 A/90 A 1P3W, 3P4W 60 A/30 A	1P2W 240 A/120 A 1P3W, 3P4W 80 A/40 A	1P2W, 300 A/150 A 1P3W, 3P4W 100 A/50 A	1P2W, 360 A/180 A 1P3W, 3P4W 120 A/60 A
Output Frequency	2000 Hz	2000 Hz	1000 Hz	1000 Hz	1000 Hz	1000 Hz	550 Hz	550 Hz	550 Hz
AC Output Capacity	4.5 kVA	6 kVA	9 kVA	13.5 kVA	12 kVA	18 kVA	24 kVA	30 kVA	36 kVA
DC Output Voltage	-250.0 V to +250.0 V/-500.0 V to +500.0 V								
DC Output Capacity	4.5 kW	6 kW	9 kW	13.5 kW	12 kW	18 kW	24 kW	30 kW	36 kW

ASR-6450-09/6600-12 (Two units)

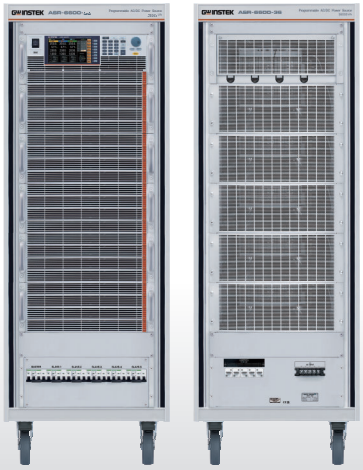
ASR-6450-13.5/6600-18 (Three units)

ASR-6600-24 (Four units)

ASR-6600-30 (Five units)



ASR-6600-36 (Six units)



Specifications subject to change without notice. ASR-64506600ID2DS

ORDERING INFORMATION

ASR-6450	**4.5 kVA High-Performance AC/DC Power Supply**
ASR-6450-09	**9 kVA AC/DC Rack Type Power Source**
ASR-6450-13.5	**13.5 kVA AC/DC Rack Type Power Source**
ASR-6600	**6 kVA High-Performance AC/DC Power Supply**
ASR-6600-12	**12 kVA AC/DC Rack Type Power Source**
ASR-6600-18	**18 kVA AC/DC Rack Type Power Source**
ASR-6600-24	**24 kVA AC/DC Rack Type Power Source**
ASR-6600-30	**30 kVA AC/DC Rack Power Source**
ASR-6600-36	**36 kVA AC/DC Rack Power Source**

ACCESSORIES

Input terminal cover, Output terminal cover,
Copper plate for delta connection input(Mark 1),
Copper plate for single phase and Y connection input(Mark 2),
Copper plate for delta connection input(Mark 3),
Copper plate for 1P output(Mark 4),
GRA-451-E Rack mount adapter(EIA)(Stand-alone models only)
GTL-246 USB cable (USB 2.0 Type A - Type B cable, approx. 1.2 M)

OPTION ACCESSORIES

ASR-003	GPIB Interface Card
ASR-004	DeviceNet Interface Card
ASR-005	CAN BUS Interface Card
ASR-007	Input and Output Copper Plate Set
ASR-008	Input Terminal Cover
ASR-009	Output Terminal Cover
ASR-C003	Modbus TCP feature
GTL-232	RS-232C Cable, approx. 2 M
GTL-248	GPIB Cable, approx. 2 M

For ASR-6450/ASR-6600 use only :

ASR-006	External Parallel Cable
GRA-451-J	Rack mount adapter(JIS)
GPW-012	6RVV5 VDE Power Cord; 2.5 mm 2/5 C, 3 m Max Length, RVS3-5*5P, RVS3-5*5P VDE Type
GPW-013	6RVT5 PSE Power Cord; 2.0 mm 2/5 C, 3 m Max Length, RVS2-5*5P, RVS2-5*5P PSE Type
GPW-014	6RV4 UL Power Cord; 10 AWG/4 C, 3 m, RV5-5*4P,RV5-5*4P UL TYPE
GPW-015	6RVV4 VDE Power Cord; 2.5 mm 2/4 C, 3 m Max Length, RVS3-5*4P, RVS3-5*4P VDE Type

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