GW INSTEK
Simply Reliable

ASR-6500/6660 Series

5/6.6/10/13.2/15/19.8/26.4/33/39.6 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 highspeed 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 highefficiency 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.

The series employs compound semiconductor silicon carbide (SiC) technology to create a 4U 6.6 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

* AC Input is Three-phase Only, Line Voltage 380 V to 415 V ± 10 %
* Adopts Compound Semiconductor Silicon Carbide (SiC) Technology to Create a 4U 6.6 kVA High-performance AC/DC Power Source with High Power Density
* 10 Output Modes: Including External Input Signal Frequency and Mains Synchronization (SYNC), External Voltage Controlled Internal Amplifier Output (VCA)
* Multi-channel Output Function
* Supports 1P2W, 1P3W, 3P4W output
* AC Maximum Output Phase Voltage: 350 Vrms Line Voltage: 700 Vrms
* Frequency Range: AC Mode: 15.00 Hz to 2000.0 Hz, AC+DC Mode: 1.00 Hz to 2000.0 Hz (Stand-alone unit ASR-6500/6660); Parallel Rack Type: Highest Frequency De-rating to 1000.0 Hz (10 kVA to 19.8 kVA); De-rating to 550.0 Hz (26.4 kVA to 39.6 kVA)
* AC Balanced and Unbalanced Three-phase, Phase Loss 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, Capable of Editing and Outputting Tens of Thousands of Waveforms
* Advanced Web Server Control to Support Data Acquisition Function
* 100 th Order Harmonic Measurement Function
* Support Parallel Connection Type Up to 39.6 kVA / 39.6 kW Maximum
* Standard Interfaces: RS-232C, USB, LAN
* Optional Interfaces: CAN Bus, DeviceNet, GPIB

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

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Type	Stand Alone		Rack Type ✲						
Model	ASR-6500	ASR-6660	ASR-6500-10	ASR-6500-15	ASR-6660-13.2	ASR-6660-19.8	ASR-6660-26.4	ASR-6660-33	ASR-6660-39.6
AC Input Voltage	3P3W (VLL Y): AC 380 V to 415 V ± 10 % 3P4W (VLL Y): AC 380 V to 415 V ± 10 %								
AC Output Voltage	Phase Voltage 0 V to 350.0 V/Line Voltage 0 V to 700 V								
AC Output Current	1P2W: 50 A/ 25 A 1P3W, 3P4W: 16.6 A / 8.33 A	1P2W: 66 A / 33 A 1P3W, 3P4W: 22 A / 11 A	1P2W: 100 A / 50 A 1P3W, 3P4W: 33.54 A / 16.66 A	1P2W: 150 A / 75 A 1P3W, 3P4W: 50.01 A / 24.99 A	1P2W: 132 A / 66 A 1P3W, 3P4W: 44 A / 22 A	1P2W: 198 A / 99 A 1P3W, 3P4W: 66 A / 33 A	1P2W: 264 A / 132 A 1P3W, 3P4W: 88 A / 44 A	1P2W: 330 A / 165 A 1P3W, 3P4W: 110 A / 55 A	1P2W: 396 A / 198 A 1P3W, 3P4W: 132 A / 66 A
Output Frequency	2000 Hz	2000 Hz	1000 Hz	1000 Hz	1000 Hz	1000 Hz	550 Hz	550 Hz	550 Hz
AC Output Capacity	5 kVA	6.6 kVA	10 kVA	15 kVA	13.2 kVA	19.8 kVA	26.4 kVA	33 kVA	39.6 kVA
DC Output Voltage	-250.0 V to +250.0 V/-500.0 V to +500.0 V								
DC Output Capacity	5 kW	6.6 kW	10 kW	15 kW	13.2 kW	19.8 kW	26.4 kW	33 kW	39.6 kW

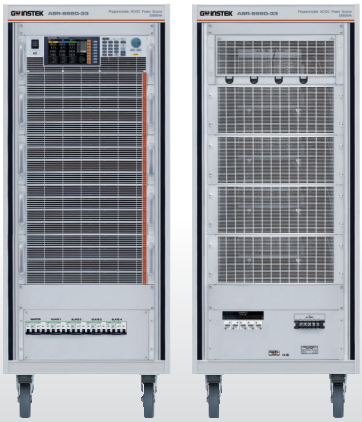
✲ Note: Rack type models are available starting from the end of december 2025

ASR-6500-10/6660-13.2 (Two units)

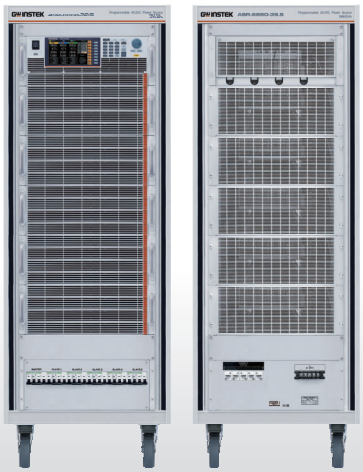
ASR-6500-15/6660-19.8 (Three units)

ASR-6660-26.4 (Four units)

ASR-6660-33 (Five units)



ASR-6660-39.6 (Six units)



Specifications subject to change without notice. ASR-6500_6660ID1DS

ORDERING INFORMATION

ASR-6500	5 kVA	AC/DC Programming Source
ASR-6500-10	10 kVA	AC/DC Rack Type Power Source
ASR-6500-15	15 kVA	AC/DC Rack Type Power Source
ASR-6660	6.6 kVA	AC/DC Programming Source
ASR-6660-13.2	13.2 kVA	AC/DC Rack Type Power Source
ASR-6660-19.8	19.8 kVA	AC/DC Rack Type Power Source
ASR-6660-26.4	26.4 kVA	AC/DC Rack Type Power Source
ASR-6660-33	33 kVA	AC/DC Rack Type Power Source
ASR-6660-39.6	39.6 kVA	AC/DC Rack Type Power Source

ACCESSORIES

QuickStart Guide x 1, Safety guide x 1,
Input terminal cover x 1, Output terminal cover x 1
Copper plate for 1P output (Mark 4) x 1
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-006	External parallel cable (For ASR-6500/6660 Series use only)
GRA-451-E	Rack mount adapter (EIA)
GRA-451-J	Rack mount adapter (JIS)
GPW-014	6RV4 UL Power Cord 10AWG/4C, 3 m Max Length, RVS5-5*4P, RVS5-5*4P UL Type
GPW-015	6RVV4 VDE Power Cord 2.5 mm2/4C, 3 m Max Length, RVS3-5*4P, RVS3-5*4P VDE Type
GPW-016	6RVT4 PSE Power Cord 2.0 mm2/4C, 3 m Max Length, RVS2-5*4P, RVS2-5*4P PSE Type
ASR-C003	Modbus TCP feature
GTL-232	RS-232C Cable, approx. 2 m
GTL-248	GPIB Cable, approx. 2 m

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