MT Series

Programmable DC Power Supply

CERTIFICATIONS



POWER	VOLTAGE	CURRENT	MODELS	SIZE
150 kW to 3 MW+	32 Vdc to 6,000 Vdc	25 Adc to 6,000 Adc (per unit)	49	60U to 90U+

1 Description

The MT Series delivers 150 to 250 kW of programmable DC power per floor-standing cabinet, using high-frequency IGBT current-fed power processing and integrated AC input breakers for robust, high-power conversion. Systems scale into the multi-megawatt range via UID47 master-slave control, while embedded 12-pulse harmonic neutralizers on 250 kW models—and optional 24- or 48-pulse external neutralizers—minimize THD to meet demanding power-quality requirements in large test bays, drives, and renewable-energy emulation.

2 Key Features

- 150 kW and 250 kW modules
- High-frequency IGBT current-fed topology
- Multi-megawatt scaling via UID47 control
- Integrated AC input breaker standard
- Harmonic neutralizers for low grid THD

3 Integrated Options Available

+ISO	High Isolation Output
+HS	High Slew Rate Output
+GPIB	IEEE-488 GPIB
+BD	Integrated Blocking Diode
+LXI	LXI TCP/IP Ethernet
+PB	Pedestal Base

4 Specifications

Specifications are subject to change without notice. Unless otherwise noted, all specifications measured at the product's maximum ratings.

4.1 AC Input Specifications

PARAMETER	VALUE	CONDITIONS
3Φ AC Input Voltage	380/400 Vac (operating range 342 to 440 Vac) 415 Vac (operating range 373 to 456 Vac) 440 Vac (operating range 396 to 484 Vac) 480 Vac (operating range 432 to 528 Vac)	Available on all models
Input Frequency	50 Hz to 60 Hz	
Power Factor	> 0.92 at maximum power, 150 kW models > 0.96 at maximum power, 250 kW models	
AC Input Isolation	±2500 Vdc, maximum input voltage to ground	

4.2 DC Output Specifications

PARAMETER	VALUE	CONDITIONS
Voltage Ripple	Model specific. Refer to chart of available models.	
Line Regulation	Voltage mode: ± 0.004% of full scale Current mode: ± 0.02% of full scale	
Load Regulation	Voltage mode: ± 0.01% of full scale Current mode: ± 0.04% of full scale	
Stability	± 0.10% for 8 hrs. after 30 min. warm-up	
Efficiency	90% to 92% Model specific. Refer to chart of available models.	
Maximum Slew Rate	< 170 ms for a programmed output voltage change from 0 to 63% < 200 ms for a programmed output current change from 0 to 63%	Standard Models
Maximum Slew Rate	< 5 ms for a programmed output voltage change from 0 to 63% < 10 ms for a programmed output current change from 0 to 63%	Models with High Slew Rate Output (+HS) Option
Bandwidth	3 Hz with remote analog voltage programming 2 Hz with remote analog current programming	Standard Models
Bandwidth	60 Hz with remote analog voltage programming 45 Hz with remote analog current programming	Models with High Slew Rate Output (+HS) Option
DC Output Isolation	±1000 Vdc, maximum output voltage to ground	Models Rated ≤1000 Vdc
DC Output Isolation	±6000 Vdc, maximum output voltage to ground	Models Rated >1000 Vdc or Models with +ISO Option

4.3 Programming Interface Specifications

PARAMETER	VALUE	CONDITIONS
Front Panel Programming	Stepless aluminum rotary knobs and keypad	
Computer Interface	RS232, D-sub DB-9, female (Standard) LXI TCP/IP Ethernet RJ45 (Option +LXI) IEEE-488 GPIB (Option +GPIB)	
External User I/O Port	37-pin D-sub DB-37, female Referenced to Earth ground; isolated from power supply output See User Manual for pin layout	

4.3 Programming Interface Specifications

PARAMETER	VALUE	CONDITIONS
Remote Sense Limits (Wired)	3% maximum voltage drop from output to load	Available for models ≤ 1000 Vdc without High Isolation Output (+ISO) option

4.4 Accuracy Specifications

PARAMETER	VALUE	CONDITIONS
Voltage Programming Accuracy	± 0.075% of max rated voltage	
Over Voltage Trip Programming Accuracy	± 0.075% of max rated voltage	
Current Programming Accuracy	± 0.075% of max rated current	
Over Current Trip Programming Accuracy	± 0.075% of max rated current	
Voltage Readback Accuracy	± 0.2% of max rated voltage	
Current Readback Accuracy	± 0.2% of max rated current	

4.5 External User I/O Specifications

PARAMETER	VALUE	CONDITIONS
Analog Programming and Monitoring Levels	0-10 Vdc	
Analog Output Impedances	Voltage output monitoring: 100 Ω Current output monitoring: 100 Ω +10V reference: 1 Ω	
Digital Programming and Monitoring Limits	Input: 0 to 5 Vdc, 10 kΩ input impedance Output: 0 to 5 Vdc, 5 mA drive capacity	

4.6 Physical Specifications

PARAMETER	VALUE	CONDITIONS
Size and Weight	Floor-standing double-bay 19" cabinet with casters 67" H x 48" W x 31.5" D (170.2 x 121.9 x 80.0 cm) 2100 lbs (952.5 kg)	150 kW Models
Size and Weight	Floor-standing triple-bay 19" cabinet with casters 67" H x 72" W x 31.5" D (170.2 x 182.9 x 80.0 cm) 3300 lbs (1496.9 kg)	250 kW Models

4.7 Environmental Specifications

PARAMETER	VALUE	CONDITIONS
Ambient Operating Temperature	0°C to 50°C	
Storage Temperature	-40°C to +85°C	
Humidity	Relative humidity up to 95% non-condensing	
Temperature Coefficient	0.04%/°C of maximum output voltage 0.06%/°C of maximum output current	
Air Flow	Front and rear inlet, top exhaust	

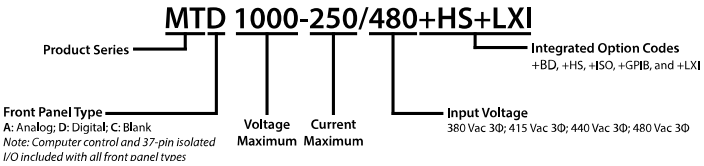
4.8 Regulatory Specifications

PARAMETER	VALUE	CONDITIONS
EMC	Complies with 2014/30/EU (EMC Directive) CISPR 22 / EN 55022 Class A	

4.8 Regulatory Specifications

PARAMETER	VALUE	CONDITIONS
Safety	Complies with EN61010-1 and 2014/35/EU (Low Voltage Directive)	
CE Mark	Yes	
RoHS Compliant	Yes	

5 Model Ordering Guide



6 Models

Max Voltage Vdc	150 kW	250 kW	500 kW[1]	750 kW[1]	1000 kW[1]	Ripple mVrms	Efficiency
	Max Current Adc						
32	4500	—	—	—	—	40	90%
40	3750	6000	12000	18000	24000	40	91%
50	3000	5000	10000	15000	20000	50	91%
60	2500	4160	8320	12480	16640	60	91%
80	1850	3000	6000	9000	12000	60	91%
100	1500	2500	5000	7500	10000	60	91%
125	1200	2000	4000	6000	8000	100	91%
160	900	1500	3000	4500	6000	120	91%
200	750	1250	2500	3750	5000	125	91%
250	600	1000	2000	3000	4000	130	92%
300	500	833	1666	2499	3332	160	92%
375	400	660	1320	1980	2640	170	92%
400	375	625	1250	1875	2500	180	92%
500	300	500	1000	1500	2000	220	92%
600	240	400	800	1200	1600	250	92%
800	180	300	600	900	1200	300	92%
1000	150	250	500	750	1000	400	92%
1250	120	200	400	600	800	500	92%
1600	90	150	300	450	600	600	92%
2000	75	125	250	375	500	800	92%
2500	60	100	200	300	400	900	92%
3000	50	80	160	240	320	1000	92%
4000	36	60	120	180	240	1100	92%
5000	30	50	100	150	200		92%
6000	25	41.6	83.2	124.8	166.4		92%
AC Input Voltage Vac	Input Current Per Phase Aac						
380/415 Vac, 3Φ	276	440	880	1320	1760		
440/480 Vac, 3Φ	238	380	760	1140	1520		

[1]Power levels are achieved through master-slave parallel of 250 kW models. Contact sales for systems up to 3,000 kW.

7 Features

High-power performance, harmonic control, and configurability.

High-performance DC power at scale

Precise, stable output for multi-kilowatt to multi-megawatt systems.



With a wide range of high current and high voltage up to 6,000 Vdc (floating), the MT Series systems deliver fast transient response, high-accuracy programming and measurement, and low output ripple across a wide range of power levels. With constant-voltage or constant-current operation and automatic crossover, they respond quickly to changing loads and hold tightly to their targets—well suited for high-power test stands, industrial process power, and multi-megawatt installations where performance matters.

Configured-to-order with integrated options

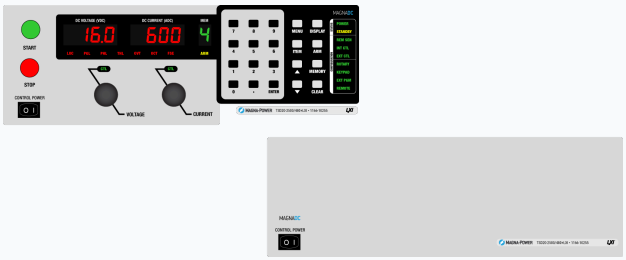
Rich standard features, extended when needed.



Like the rest of the MagnaDC line, MT Series supplies start with a strong control base: SCPI over RS232, isolated rear User I/O, LabVIEW and IVI drivers, and Remote Interface Software included. From there, integrated options let you tailor each system for its role—High Isolation Output (+ISO) for extended series stacking, High Slew Rate Output (+HS) for faster dynamics, LXI TCP/IP Ethernet (+LXI) and IEEE-488 GPIB (+GPIB) for additional communications, plus protection and mechanical options such as an Integrated Blocking Diode (+BD) and Pedestal Base (+PB) for fixed installations.

Stepless front-panel control with blank panel option

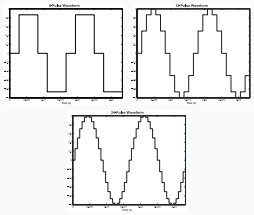
Hands-on where you want it, hidden where you don't.



The standard D Version front panel provides rotary and key-based control, bright digital metering, and clear status indicators, so operators can configure setpoints, start and stop the supply, and see system health at a glance. For OEMs and production tools, the optional blank (C-version) front panel removes local controls altogether while retaining full control via communication interfaces and rear 37-pin user I/O, keeping systems secure, clean, and operator-proof.

Harmonic Neutralizers for cleaner high-power systems

Reduce THD at the source for easier power-quality compliance.



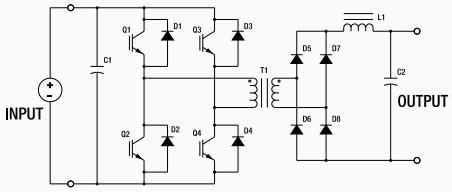
Input current harmonics are an inherent by-product of three-phase rectifiers: a standard 6-pulse front end produces harmonic currents at 1, 5, 7, 11, 13… times the fundamental, with the 5th and 7th components alone at roughly 20% and 14% of the fundamental. These currents can excite sensitive loads—such as lighting ballasts with series capacitors/inductors—and make meeting power-quality guidelines like IEEE 519 more challenging. The most reliable way to minimize harmonic issues is to eliminate harmonic current at the source.

For high-power systems, Magna-Power manufactures specially wound Harmonic Neutralizers that multiply the number of input phases and dramatically cut input current THD, passively. Standard 1.5–150 kW Magna-Power supplies draw a 6-pulse waveform, while 250 kW MT Series and 500 kW ML Series models embed a 12-pulse Harmonic Neutralizer and 1000 kW ML Series models embed a 24-pulse Harmonic Neutralizer—transparent to the user.

Rugged by design: safety + reliability, as you'd expect from Magna-Power.

Reliable current-fed power processing

Rugged by design: self-protecting topology for uptime.



MagnaDC power supplies utilize a high-frequency, current-fed architecture that adds a control stage beyond conventional voltage-fed designs. This topology inherently limits fault energy—avoiding fast-rising current spikes and magnetic core saturation so the supply self-protects and your load stays safe. Paired with state-of-the-art SiC power semiconductors, Magna DC power supplies delivers class-leading power density, efficiency, and reliability, including continuous full-power operation up to 50°C ambient.

- Current-fed architecture with an added control stage vs. voltage-fed.
- Inherent surge immunity—no current spikes or core saturation.
- Self-protecting behavior under fault conditions.
- SiC devices for high density and efficiency; full power to 50°C.

Safety features & interlock

Soft-start, programmable protection, and a mechanical line disconnect for true safety.



MagnaDC supplies start gently and watch continuously. A soft-start stage keeps inrush below steady-state draw, while built-in diagnostics monitor line, thermal, and control conditions. In standby or on a diagnostic fault, an embedded AC contactor mechanically disconnects the mains, assuring the unit only processes power when intended. Faults are shown on the front-panel status display, through 5V digital outputs, and are queryable via SCPI.

- Programmable trips: Over voltage (OVT) and over current (OCT).
- Control integrity: Program-line over-voltage detection.
- Over temperature product with multiple distributed thermal switches.
- Interlock/E-stop fault monitoring as a standard diagnostic.
- Field integration: 5V interlock input (with 5V reference) for a dry-contact, latching inhibit with control power maintained.

From lab scripts to factory PLCs, flexible programming & integration.

Software integration made easy

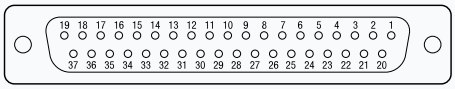
Readable commands, quick results—works with any language.

MagnaDC power supplies exposes a clear, text-based API with native SCPI, an ASCII-based command language sent over socket communications. Over 40 well-documented commands cover start/stop, set points for voltage, current, high-accuracy measurements, and full configuration—so your scripts and systems go from proof-of-concept to production fast.

- SCPI command sets with consistent behavior.
- Start/stop & protections: enable output, set trip limits, query status.
- High-accuracy reads: voltage, current, power, and sense feedback.
- Developer-driven documentation & examples.

External User I/O for PLC control or PHIL simulation

Wire it like an I/O module—no extra isolation needed.



Via the included rear 37-pin User I/O connector, MagnaDC supplies can be fully driven and monitored by external signals or a PLC. Voltage, current, OVT, and OCT set points are programmed with 0–10 V analog inputs, while each diagnostic condition has its own +5V digital status pin. Built-in +2.5V, +5V, and +10V reference rails let you use dry contacts without adding external supplies. All I/O is isolated from the output and referenced to earth ground as standard.

- 0–10 V analog programming for V, I, OVT, and OCT.
- Per-fault digital outputs: each diagnostic has its own +5V pin.
- Isolated user I/O referenced to earth ground—no extra isolators.
- With High Slew Rate Output (+HS), high-bandwidth response and fast rise times support HIL/PHIL simulation applications.

High-performance master-slave operation

Scale voltage or current without sacrificing performance.

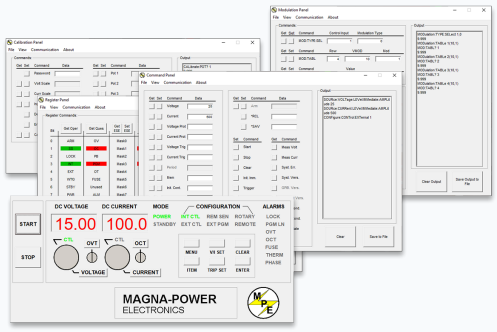


All MagnaDC supplies support master-slave operation, using gate-drive signals from the master when configured for parallel, so the whole stack behaves like a single supply—with one control loop and no noisy long analog references. The optional UID47 accessory simplifies wiring for series or parallel sets with near-equal sharing.

- Single control loop parallel operation: Master gate-drive to slaves for consistent dynamics.
- Plug & play with the UID47, enabling parallel or series stacks with current/voltage sharing.
- Series up to the DC isolation rating without added hardware.
- No additional ORing diodes required for parallel operation.

Magna-Power software, LabVIEW & IVI drivers

From virtual front panel to full automation—out of the box.



Every MagnaDC supply includes an IVI driver and NI LabVIEW driver with a full set of VIs, plus example programs so you can get talking to the hardware in minutes. For direct front-panel-style control from a PC, Magna-Power's Remote Interface Software provides a rich view into the supply—from commands and registers to calibration and firmware.

- IVI & NI LabVIEW drivers included with full VI set.
- Example programs to jump-start integration and testing.
- Remote Interface Software with:
  - Virtual front panel for manual control
  - Command panel to explore and send commands
  - Register panel for live status monitoring
  - Calibration panel for internal digital potentiometers
  - Firmware panel for in-place upgrades
  - Modulation panel to emulate non-linear profiles
- All communication interfaces supported across software and drivers for a consistent programming experience.

State-of-the-art USA manufacturing with worldwide support

Made in the USA

Vertically integrated manufacturing for full quality control.

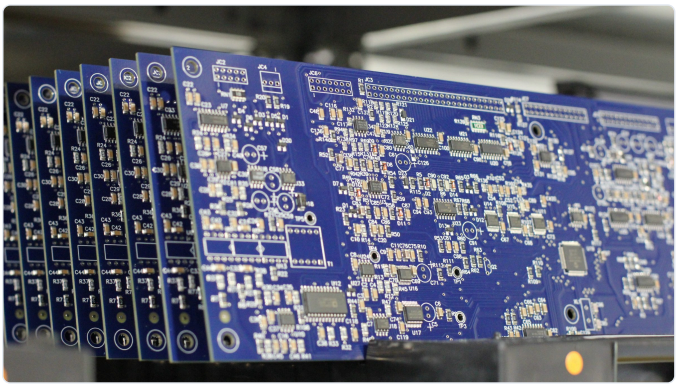


Magna-Power products are designed, built, tested, and serviced at Magna-Power's 73,500 sq-ft headquarters in Flemington, New Jersey, where metalwork, magnetics, PCB assembly, and burn-in are all done in-house for tight control over quality, cost, and lead-time.

- USA-built: Engineering, manufacturing, and service under one roof.
- In-house production: Metalwork, magnetics, SMT PCBs, and finishes.
- Proven reliability: Every unit fully tested, calibrated, and burned in.

Worldwide service & OEM parts support

Factory expertise, local response.



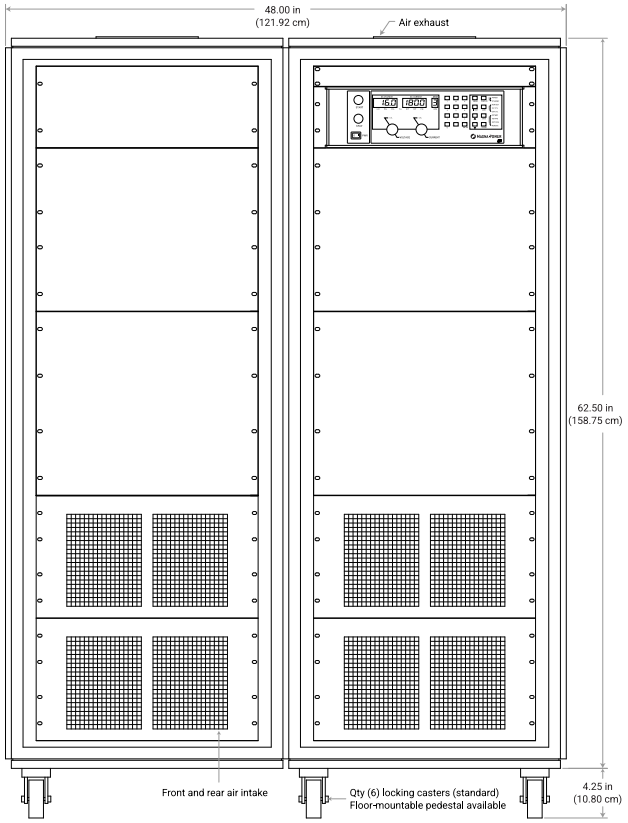
Magna-Power backs its products with factory and authorized service centers across North America, Europe, the UK, Asia-Pacific, East Asia, and South America—using factory procedures and genuine parts to restore units to original specifications, in or out of warranty.

- Global coverage: HQ in New Jersey plus regional authorized service centers.
- Consistent repairs: Factory diagnostics, work instructions, and system diagrams.
- Genuine OEM parts: Tested replacement assemblies for predictable, low-downtime service.

8 Diagrams

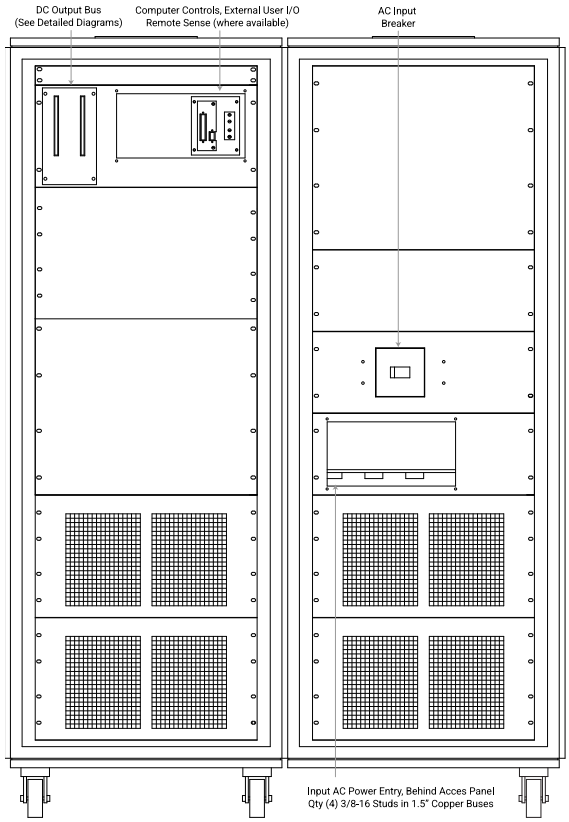
Front Side

150 kW Models



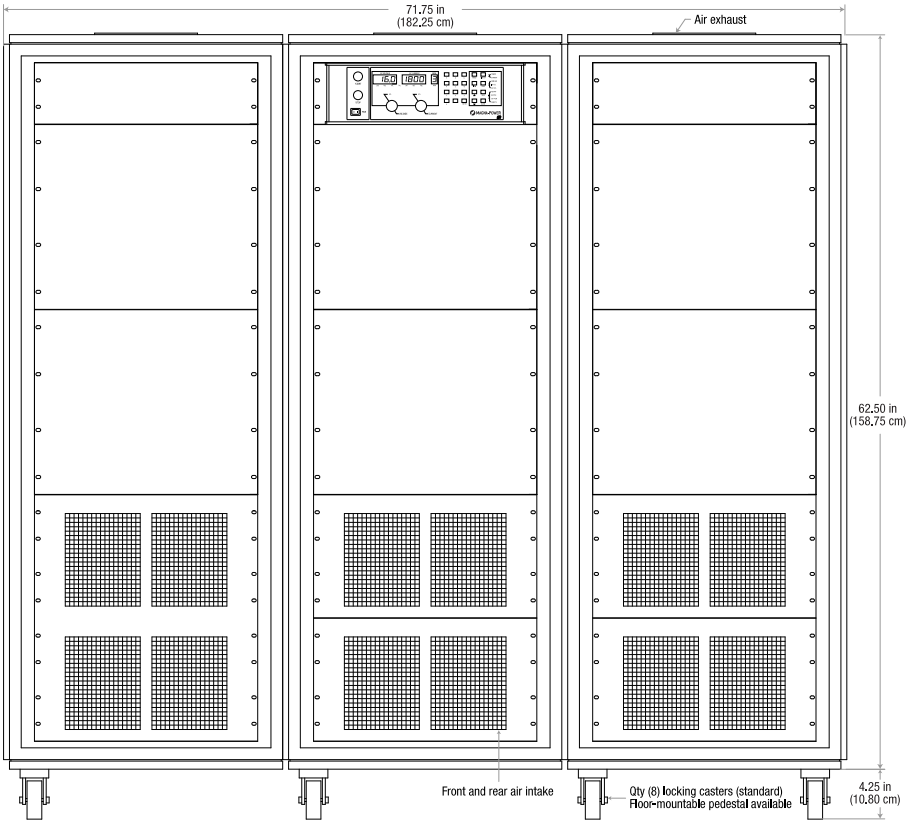
Rear Side

150 kW Models



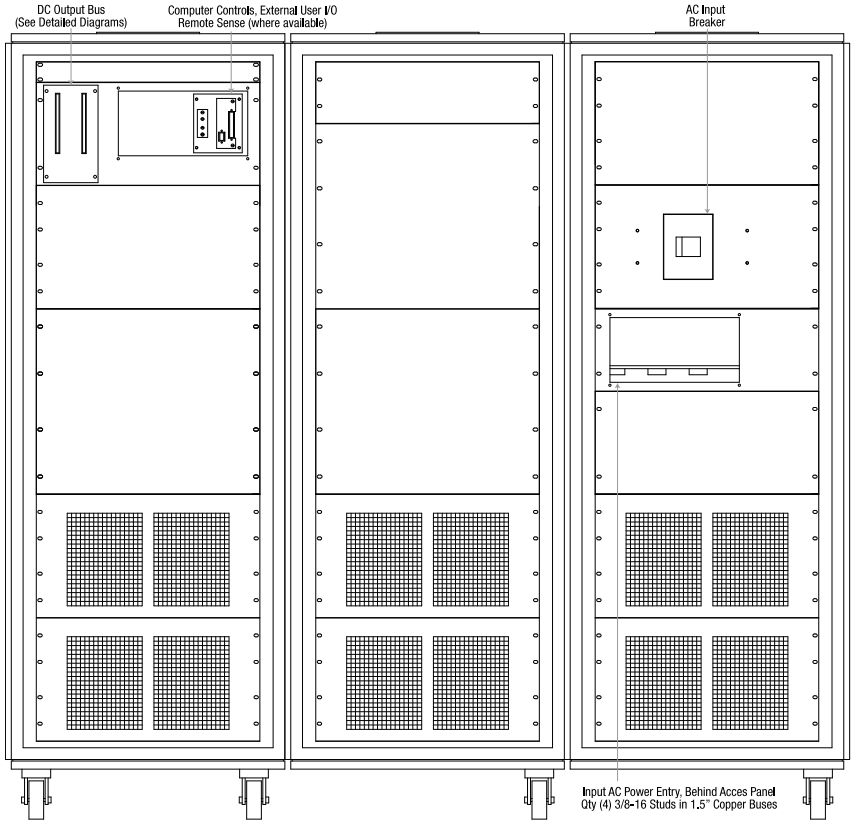
Front Side

250 kW Models



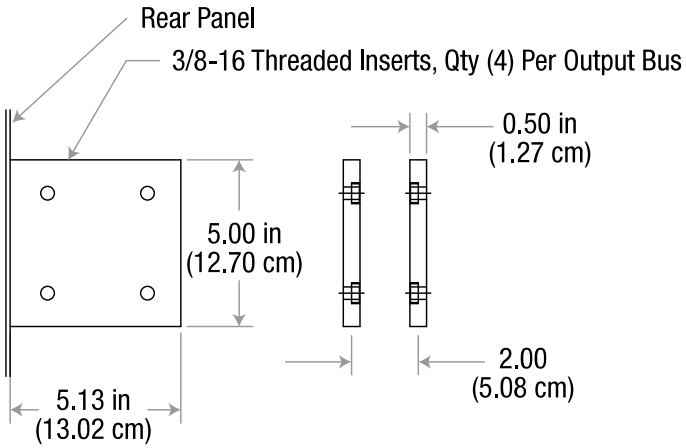
Rear Side

250 kW Models



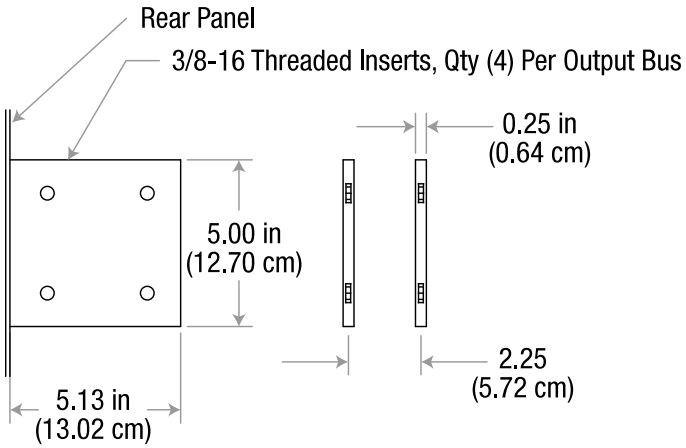
DC Output Bus

Models Rated 50 Vdc and Below



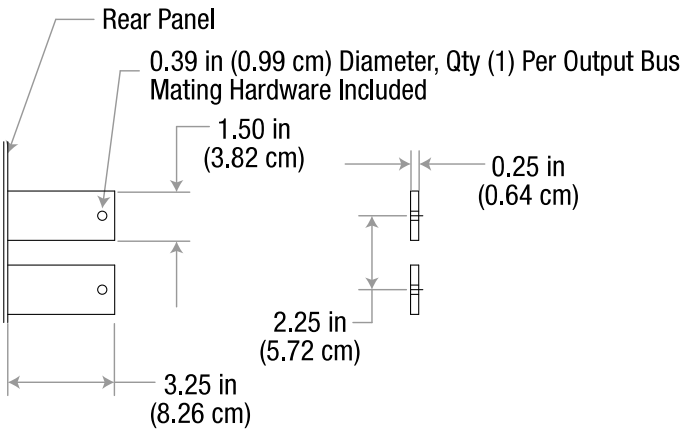
DC Output Bus

Models Rated 60 Vdc through 1000 Vdc



DC Output Bus

Models Rated Greater than 1000 Vdc or with High Isolation Output Option (+ISO)



9 Integrated Options Available

+ISO High Isolation Output

Available for models rated for 250 Vdc to 1000 Vdc, the +ISO option greatly increases the output isolation, used when the application demands floating or tying units in series beyond the standard ±1000 Vdc output isolation rating.

Certain applications require floating the output voltage to values beyond the power supply isolation rating. Magna-Power's High Isolation Output Option (+ISO) enables any TS Series or MT Series model with a peak output voltage rating of 250 Vdc through 1000 Vdc to be rated for a higher voltage output isolation. Improved isolation is achieved by a novel output stage with improved controller isolation. In addition to being able to float the power supply to a higher output voltage, this option also enables lower voltage units to be tied together in series up to its new higher isolation rating, in accordance with the table below.

Availability

The +ISO option is available for models with maximum output voltage rating from 250 Vdc to 1000 Vdc from the following product series:

- TS Series
- MT Series
- ML Series

The +ISO option cannot be combined with the +BD or +WC options. Addition of the +ISO option will cause the product's wired remote sense feature to be removed.

Specifications

The output isolation for Magna-Power Electronics TS Series and MT Series programmable DC power supplies is as follows, where Vo is output voltage rating of the particular model:

Product Series	DC Output Isolation (Standard) (Models Rated Up to 1000 Vdc)	DC Output Isolation (With +ISO Option) (Models Rated Up to 1000 Vdc)
TS Series	±1000 Vdc, max output voltage to ground	±(3000 Vdc + Vo/2), max output voltage to ground, where Vo is the max rated voltage
MT Series	±1000 Vdc, max output voltage to ground	±6000 Vdc
ML Series	±1500 Vdc, max output voltage to ground	±6000 Vdc

+HS High Slew Rate Output

A hardware and control modification that replaces the standard output stage with one of low capacitance film and/or high RMS current rated aluminum electrolytic capacitors. This option provides higher bandwidth with faster output rise and fall times.

The high slew rate option solves several limitations inherent in switching power supply design. Rapid voltage transitions require internal electronics to supply the energy to charge and discharge output capacitors. Peak currents internal to the power supply define slew rate; utilizing less capacitance enables voltage transitions in shorter time periods. Additionally, less capacitance reduces requirements for discharge demands during open circuit conditions.

The standard output stage Magna-Power Electronics power supplies has been designed to provide the lowest possible output ripple voltage within the constraints of available components, size, and cost. Part of the output stage consists of a bank of aluminum electrolytic capacitors which has the desired electrical properties to provide this function. These components require bleed resistors to discharge any voltage when the power supply has no load and is disabled. While the presence of these components and the resulting performance are normally industry accepted, there are applications where lower output capacitance and lower loss bleed resistors are extremely desirable and higher ripple voltage is acceptable. To meet this need, a high-slew rate option is available which has

an output stage consisting of low capacitance film and aluminum electrolytic capacitors and lower loss bleed resistors. Applications for the high-slew rate option include battery charging, photovoltaic emulation, power waveform generation, and medium speed power pulsing. These applications all benefit from higher bandwidth and in many cases, can tolerate increased ripple voltage.

Key Applications

For **battery charger applications**, output capacitance and internal bleed resistors present themselves as a load to the connecting batteries. One common practice is to use a series diode to block reverse current flow with the sacrifice of increased cost and lower efficiency. The high slew rate option, with its lower output capacitance and lower loss bleed resistors, enables direct connection to batteries without series blocking diodes.

For **photovoltaic emulation applications**, higher bandwidth and lower output capacitance enable improved performance with higher speed, maximum power tracker algorithms. Maximum power tracker circuitry deviates the operating point of photovoltaic arrays to determine maximum power output. Slow responding emulation sources can present a problem when the speed of the algorithm exceeds that of the source. Furthermore, with lower output capacitance, changes in the operating point and transients, caused by shorting the solar inverter input, produce lower unwanted input currents.

The high-slew rate option enables the power supply to operate as a **low frequency, power pulse generator**. With the special capacitors selected for this option, it is possible to superimpose waveforms or produce a medium speed pulse on top of the dc output and expect normal capacitor life. It is important to note that the power supply output is single quadrant; that is, the output voltage or current cannot reverse.

Specifications

SL Series Output Stage Ratings with the High Slew Rate Output Option Integrated

Voltage Maximum Rating (Vdc)	Output Capacitance (uF)	Output Voltage Ripple (Vrms)
5	4235	0.5
10	1740	0.6
16	1740	0.6
20	775	0.6
25	775	0.8
32	775	0.8
40	760	1.5
50	760	1.5
60	760	2.0
80	110	1.5
100	110	1.6
125	70	1.7
160	70	1.8
200	70	1.8
250	70	1.8
300	70	1.8
375	70	1.8
400	70	1.8
500	40	2.0
600	40	2.2
800	30	2.5
1000	30	3.4
1250	—	3.4
1500	—	4.0

XR Series Output Stage Ratings with the High Slew Rate Output Option Integrated

Voltage Maximum Rating (Vdc)	Output Capacitance (uF)	Output Voltage Ripple (Vrms)
5	13200	1.5
10	4080	1.6
16	4080	1.7
20	2340	1.8
25	1170	1.8
32	1170	1.8
40	240	1.8
50	240	1.8
60	240	2.0
80	240	2.2
100	160	2.5
125	160	3.0
160	160	2.8
200	160	4.0
250	160	1.6
300	160	1.8
375	160	1.8
400	160	1.8
500	56	3.0
600	56	3.0
800	52	3.0
1000	52	3.0
1250	18	3.5
1500	18	3.5
2000	18	5.0
3000-10000	—	—

TS Series Output Stage Ratings with the High Slew Rate Output Option Integrated

Voltage Maximum Rating (Vdc)	Output Capacitance (uF)	Output Voltage Ripple (Vrms)
5	13200	0.5
8	9000	0.5
10	9000	0.5
16	4080	0.5
20	2340	0.8
25	2340	0.8
32	1170	0.8
40	1170	0.8
50	1170	0.8
60	300	1.2
80	300	1.2
100	200	1.6
125	200	1.6
160	200	1.6
200	200	2.0
250	200	2.0
300	200	2.2

Voltage Maximum Rating (Vdc)	Output Capacitance (uF)	Output Voltage Ripple (Vrms)
375	200	2.2
400	200	2.4
500	200	2.7
600	120	2.6
800	70	2.6
1000	60	3.5
1250	18	3.5
1500	18	4.3
2000	18	3.8
3000	9	7.2
4000	9	4.0

Note:
For 20 to 30 kW models, multiply capacitance by 2
For 40, 50, 75, and 100 kW models, contact Magna-Power support

For MT Series and ML Series output stage ratings with the high slew rate output option, please inquire with your local sales partner regarding the specific model.

+GPIB IEEE-488 GPIB

IEEE-488 General Purpose Interface Bus (GPIB) communication interface providing full command support and compatibility with other GPIB devices

The IEEE-488 interface, sometimes called the General Purpose Interface Bus (GPIB), is a general purpose digital interface system that can be used to transfer data between two or more devices. It is particularly well-suited for interconnecting computers and instruments. Some of its key features are:

- Up to 15 devices may be connected to one bus
- Total bus length may be up to 20 m and the distance between devices may be up to 2 m
- Communication is digital and messages are sent one byte (8 bits) at a time
- Message transactions are hardware handshaked
- Data rates may be up to 1 Mbyte/sec

The IEEE-488 GPIB interface in integrated with the power supply's rear communication ports. The IEEE 488 interface offers full compatibility with Magna-Power provided drivers, software and SCPI command set.

+BD Integrated Blocking Diode

An internally heatsinked protection diode on the positive output terminal of a MagnaDC programmable DC power supply to protect the product's output from reverse voltages far exceeding the product's output voltage rating.

The Integrated Blocking Diode Option (+BD) provides an internally heat-sunk protection diode on the positive output terminal of a MagnaDC programmable DC power supply. This diode protects the product's output from reverse voltage up to 1200 Vdc. All voltage sensing is performed after the protection diode—at the product's output terminals—making the diode's operation completely transparent to the performance of the power supply.

The +BD option is recommended for applications where there is significant back-emf or the possibility of a DC output voltage that could exceed the power supply's output voltage rating, such as:

- DC motor drives
- Battery and capacitor charging
- Large electromagnets

In these applications, the integrated blocking diode can be used to prevent back-emf from the energy stored in the load into the power supply's output. Furthermore, the integrated blocking diode will prevent the power supply's internal bleed resistance from discharging the energy storaged in the load when the power supply is off or in standby.

Availability

The +BD option is available for models with maximum output voltage rating as specified for the following product series:

- TS Series, models rated from 40 Vdc to 1000 Vdc
- MT Series, models rated from 125 Vdc to 1000 Vdc
- ML Series, models rated from 250 Vdc to 1000 Vdc

The +BD option cannot be combined with the +ISO option.

Specifications

Table 1. Specification for Integrated Blocking Diode (+BD) option

Reverse Voltage Rating Models Rated 125 Vdc to 1000 Vdc	1200 Vdc
Reverse Voltage Rating Models Rated Below 125 Vdc	200 Vdc
Additional Losses Models Rated 125 Vdc to 1000 Vdc	Up to 1.4%
Additional Losses Models Rated Below 125 Vdc	Up to 2.5%

+LXI LXI TCP/IP Ethernet

TCP/IP Ethernet communication protocol and single RJ-45 interface, certified to the LXI Class C standard, for socket communications using conventional computer networks

Certified to the LXI Standard (Class C), version 1.4, this option allows the product to be fully controlled over an integrated TCP/IP Ethernet interface. LXI is an instrumentation platform based on industry standard Ethernet technology designed to provide modularity, flexibility, and performance to small- and medium-sized systems. All of the product's standard SCPI commands are supported over the +LXI option, along with all provided software and drivers.

LXI's advantages are exemplified in its compact, flexible package providing high-speed I/O and reliable measurements. The Magna-Power Electronics LXI TCP/IP Ethernet option includes an embedded web-server, allowing web browser power supply control and monitoring from virtually anywhere.

Note: For xGen products, only the SCPI command protocol is available when LXI TCP/IP Ethernet interface is installed. Modbus communication protocol is not available through any interface when the LXI TCP/IP Ethernet interface is installed.

+PB Pedestal Base

A heavy-duty, floor-mountable platform base for the rack enclosure that replaces the standard casters, designed for fixed installations.

Engineered for maximum durability, the Pedestal Base replaces the standard locking casters with a rigid, welded assembly, which can be anchored directly to the floor. Built from 0.25" thick 1018 cold rolled steel and fortified with 0.25" x 4" x 2" steel rectangle tube, this robust construction ensures support in demanding industrial environments. At each end of the steel rectangle tube, 0.1875" steel angles are welded in place, providing convenient mounting holes for secure placement.

Once the pedestal frame is welded, it undergoes a powder-coating process, resulting in a rugged, corrosion-resistant finish.

The pedestal base is secured directly to the rack enclosure's frame to provide maximum mechanical support and to minimize vibrations and movement even under heavy loads.

10 Product Images





MT Series, 150 kW



MT Series, 250 kW



Reconfigurable solar array emulator using 250 kW MT Series modules at the National Renewable Energy Laboratory (NREL)







Qty (1) 150 kW MT Series and Qty (3) 75 kW MS Series [Left to Right]



2,000 kW MT Series system comprised of Qty (8) 250 kW MT Series in master-slave parallel



11 Downloads

https://magna-power.com/products/magnadc/mt#downloads

12 Contact

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