SL Series

Programmable DC Power Supply

ZERTIFIZIERUNGEN



LEISTUNG	SPANNUNG	STROM	MODELLE	GRÖSSE
1.5 kW to **10** kW	**5** Vdc to **1500** Vdc	**1.5** Adc to **250** Adc	**127**	**1** U

1 Beschreibung

The SL Series builds on nearly 40 years of power supply innovation at Magna-Power, designed from the ground up to meet the highly reliable power dense demands of ATE system integrators through Magna-Power's signature current-fed power processing topology. Utilizing state-of-the-art semiconductors and innovative internally designed and manufactured heat sinks, the SL Series offers industry-leading 1U (1.75” height) programmable power levels with models at 1.5 kW, 2.6 kW, 4 kW, 6 kW, 8 kW, and 10 kW while still maintaining an ambient operating temperature rating up to 50°C.

2 Integrierte Optionen verfügbar

+HS	High Slew Rate Output
+GPIB	IEEE-488 GPIB
+LXI	LXI TCP/IP Ethernet
+RUG	Ruggedized

3 Spezifikationen

Spezifikationen können ohne Vorankündigung geändert werden. Sofern nicht anders angegeben, wurden alle Spezifikationen bei den maximalen Nennwerten des Produkts gemessen.

3.1 AC Input Specifications

PARAMETER	WERT	BEDINGUNGEN
1Φ AC Input Voltage	100-240 Vac (UI: Universal input; 1.5 kW Models) 208-240 Vac (UI2: Universal input 2; 2.6 kW Models)	1Φ, 2-wire + ground
3Φ AC Input Voltage	208 Vac (operating range 187 to 229 Vac) 240 Vac (operating range 216 to 264 Vac) 380 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)	3Φ, 3-wire + ground
Input Frequency	50 Hz to 400 Hz	
Power Factor	0.99 at maximum power for models with 1Φ AC input; Active-PFC > 0.82 at maximum power for models with 3Φ AC input	
AC Input Isolation	±2500 Vdc, maximum input voltage to ground	

3.2 DC Output Specifications

PARAMETER	WERT	BEDINGUNGEN
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	84% to 95% 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	±1500 Vdc, maximum output voltage to ground	

3.3 Programming Interface Specifications

PARAMETER	WERT	BEDINGUNGEN
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)	

3.3 Programming Interface Specifications

PARAMETER	WERT	BEDINGUNGEN
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	Analog and Digital Programming
Remote Sense Limits (Wired)	3% maximum voltage drop from output to load	Available for models ≤ 1000 Vdc

3.4 Accuracy Specifications

PARAMETER	WERT	BEDINGUNGEN
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	

3.5 External User I/O Specifications

PARAMETER	WERT	BEDINGUNGEN
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	

3.6 Physical Specifications

PARAMETER	WERT	BEDINGUNGEN
Racking Standard	EIA-310	
Rear Support Rails	Included	
Size and Weight	1U 1.75" H x 19" W x 24" D (4.4 x 48.3 x 61.0 cm) 32 lbs (14.52 kg)	1.5 kW Models
Size and Weight	1U 1.75" H x 19" W x 24" D (4.4 x 48.3 x 61.0 cm) 34 lbs (15.42 kg)	2.6 kW Models
Size and Weight	1U 1.75" H x 19" W x 24" D (4.4 x 48.3 x 61.0 cm) 35 lbs (15.88 kg)	4 kW Models
Size and Weight	1U 1.75" H x 19" W x 24" D (4.4 x 48.3 x 61.0 cm) 35 lbs (15.88 kg)	6 kW Models
Size and Weight	1U 1.75" H x 19" W x 24" D (4.4 x 48.3 x 61.0 cm) 36 lbs (16.33 kg)	8 kW Models
Size and Weight	1U 1.75" H x 19" W x 24" D (4.4 x 48.3 x 61.0 cm) 37 lbs (16.78 kg)	10 kW Models

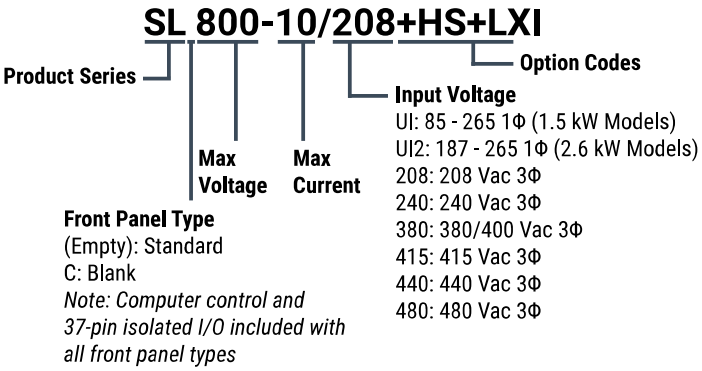
3.7 Environmental Specifications

PARAMETER	WERT	BEDINGUNGEN
Ambient Operating Temperature	-25°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	Side air inlet, rear exhaust	

3.8 Regulatory Specifications

PARAMETER	WERT	BEDINGUNGEN
EMC	Complies with 2014/30/EU (EMC Directive) CISPR 22 / EN 55022 Class A	
Safety	NRTL Listed, Nemko Certificate NA202512380 CSA C22.2 No. 61010-1:12; A1:2018 UL 61010-1:Ed.3,2012(R2019)	
CE Mark	Yes	
RoHS Compliant	Yes	

4 Modell-Bestellleitfaden



5 Modelle

Max Voltage Vdc	1.5 kW	2.6 kW	4 kW	6 kW	8 kW	10 kW	Ripple mVrms	Efficiency
			Max Current Adc					
5	250	—	—	—	—	—	30	84%
10	150	250	—	—	—	—	30	89%
16	93	162	250	—	—	—	40	89%
20	75	130	200	250	—	—	40	90%
25	60	104	160	240	—	—	50	91%
32	46	81	125	186	250	—	60	91%
40	37	65	100	150	200	250	80	91%
50	30	52	80	120	160	200	70	92%
60	25	43	66	100	133	166	100	93%
80	18	32	50	75	100	125	120	93%
100	15	26	40	60	80	100	120	93%
125	12	20	32	48	64	80	110	93%
160	9	16	25	36	50	60	110	93%
200	7.5	13	20	30	40	50	110	94%
250	6	10.4	16	24	32	40	110	94%
300	5	8.6	13.2	20	26.4	33.3	120	94%
375	4	6.9	10.4	16	21.3	26.5	120	94%
400	3.7	6.5	10	15	20	25	170	95%
500	3	5.2	8	12	16	20	250	95%
600	2.5	4.3	6.4	10	13.3	16.5	250	95%
800	1.8	3.2	5	7.5	10	12.5	250	95%
1000	1.5	2.6	4	6	8	10	400	95%
1250	1.2	2	3.2	4.8	6.4	8	700	95%
1500	1	1.7	2.6	4	5.3	6.6	1000	95%
AC Input Voltage Vac			**Input Current Per Phase** Aac					
UI (85-265 Vac, 1Φ)	21 - 7	—	—	—	—	—		
UI2 (187-265 Vac, 1Φ)	—	16 - 12	—	—	—	—		
208/240 Vac, 3Φ	6	11	16	24	32	39		
380/415 Vac, 3Φ	5	8	11	16	19	22		
440/480 Vac, 3Φ	4	6	9	14	17	19		

6 Merkmale

Fast, accurate power delivery with controls and options tailored to your needs

Unübertroffene Leistung und Performance im 1U-Format

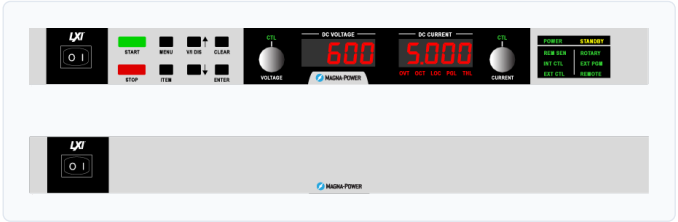
Saubere, präzise Ausgangssignale mit schneller Reaktion für anspruchsvolle Systeme.



Die Netzgeräte der SL Series bieten schnelles Einschwingverhalten, hochpräzise Programmierung und Messung, 12-Bit-Auflösung und geringe Ausgangsrestwelligkeit – alles in einem klassenführenden 1U-Gehäuse mit einem Wirkungsgrad von bis zu 95%. Mit Konstantspannungs- oder Konstantstrombetrieb und automatischem Übergang stabilisieren sie sich schnell nach Lastsprüngen (Erholzeit bei Lasttransienten im Bereich weniger Millisekunden) und halten Ihre Sollwerte präzise ein – mit einer Programmiergenauigkeit für Spannung und Strom von bis zu ±0,075% des Endwerts. Ideal für Präzisionsprüfung, Burn-in und Prozessanwendungen, bei denen sowohl Dynamik als auch Genauigkeit entscheidend sind.

Stufenlose Frontpanel-Steuerung mit Blindplatten-Option

Bedienung dort, wo Sie sie brauchen – verborgen, wo nicht.



Das Standard-SL-Frontpanel bietet Dreh- und Tastensteuerung, helle digitale Messanzeigen und übersichtliche Statusanzeigen, sodass Bediener Sollwerte einstellen, das Netzteil starten und stoppen sowie den Systemzustand auf einen Blick erfassen können. Für OEMs und Produktionsanlagen entfällt beim optionalen Blindpanel (C-Version) die lokale Bedienung vollständig, während die vollständige Steuerung über Kommunikationsschnittstellen und den rückseitigen 37-poligen Benutzer-I/O erhalten bleibt – für sichere, aufgeräumte und bediensichere Systeme.

Konfigurierbar mit integrierten Optionen

Umfangreiche Standardfunktionen, bei Bedarf erweiterbar.



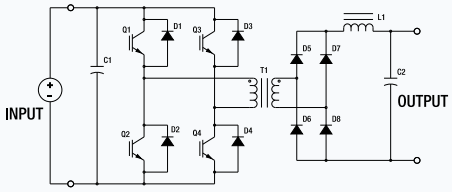
SL Series starts with a strong base: SCPI over RS232, isolated 37-pin user I/O, LabVIEW and IVI drivers, and Remote Interface Software included. When applications demand more, fully integrated options tailor performance, connectivity, and mechanics—without external boxes or ad-hoc wiring.

- Standard SCPI computer controls, RS232, isolated 37-pin analog/digital I/O, LabVIEW & IVI drivers, RIS software.
- High Slew Rate Output (+HS) for higher bandwidth and faster programmed rise times.
- Connectivity options LXI TCP/IP Ethernet (+LXI) and IEEE-488 GPIB (+GPIB).
- Ruggedized (+RUG) for MIL-STD shock & vibration

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

Zuverlässige stromgespeiste Leistungsverarbeitung

Robust durch Design: selbstschützende Topologie für maximale Betriebszeit.



The SLx Series uses 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, SLx 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.

Sicherheitsfunktionen & Verriegelung

Sanftanlauf, programmierbare Schutzfunktionen und eine mechanische Netztrennung für echte Sicherheit.



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.
- Thermal protection: Over temperature on internal heatsinks.
- 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.

Softwareintegration leicht gemacht

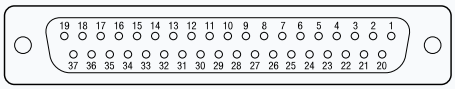
Lesbare Befehle, schnelle Ergebnisse – funktioniert mit jeder Programmiersprache.

MagnaDC-Netzgeräte bieten eine übersichtliche, textbasierte API mit nativem SCPI, einer ASCII-basierten Befehlssprache, die über Socket-Kommunikation gesendet wird. Über 40 gut dokumentierte Befehle decken Start/Stopp, Sollwerte für Spannung, Strom, hochpräzise Messungen und die vollständige Konfiguration ab – so gelangen Ihre Skripte und Systeme schnell vom Proof-of-Concept in die Produktion.

- SCPI-Befehlssätze mit konsistentem Verhalten.
- Start/Stopp & Schutzfunktionen: Ausgang aktivieren, Auslösegrenzen setzen, Status abfragen.
- Hochpräzise Messwerte: Spannung, Strom, Leistung und Sense-Rückmeldung.
- Entwicklerorientierte Dokumentation & Beispiele.

Externer User I/O für SPS-Steuerung oder PHIL-Simulation

Verdrahten wie ein I/O-Modul – keine zusätzliche Isolation erforderlich.



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.

Hochleistungs-Master-Slave-Betrieb

Spannung oder Strom skalieren ohne Leistungseinbußen.

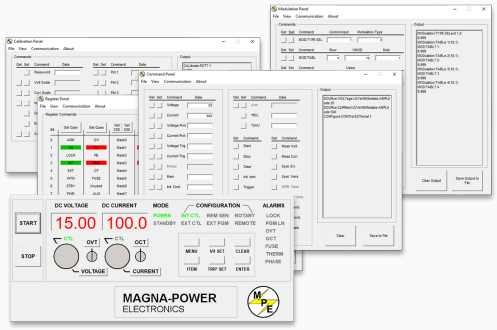


All MagnaDC supplies support master-slave operation, using gate-drive signals from the master when configured for parallel, so the whole stack behaves like a single supply—with one control loop and no noisy long analog references. The optional UID47 accessory simplifies wiring for series or parallel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

Vom virtuellen Bedienfeld bis zur vollständigen Automatisierung – sofort einsatzbereit.



Jedes MagnaDC-Netzteil enthält einen IVI-Treiber und einen NI LabVIEW-Treiber mit einem vollständigen Satz von VIs sowie Beispielprogramme, mit denen Sie in wenigen Minuten mit der Hardware kommunizieren können. Für die direkte Steuerung im Bedienfeld-Stil von einem PC aus bietet die Remote Interface Software von Magna-Power einen umfassenden Einblick in das Netzteil – von Befehlen und Registern bis hin zu Kalibrierung und Firmware.

- IVI- & NI LabVIEW-Treiber mit vollständigem VI-Satz enthalten.
- Beispielprogramme für den schnellen Einstieg in Integration und Tests.
- Remote Interface Software mit:
  - Virtuelles Bedienfeld für manuelle Steuerung
  - Befehlsfeld zum Erkunden und Senden von Befehlen
  - Registerfeld für Live-Statusüberwachung
  - Kalibrierungsfeld für interne digitale Potentiometer
  - Firmware-Feld für Vor-Ort-Upgrades
  - Modulationsfeld zur Emulation nichtlinearer Profile
- Alle Kommunikationsschnittstellen werden software- und treiberübergreifend unterstützt – für ein einheitliches Programmiererlebnis.

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

Made in the USA

Vertikal integrierte Fertigung für vollständige Qualitätskontrolle.

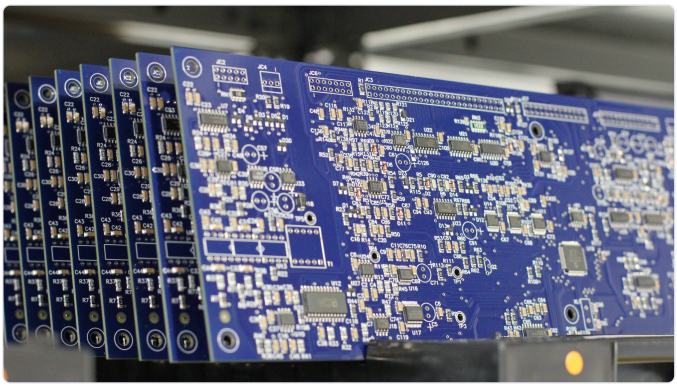


Magna-Power Produkte werden am 73.500 sq-ft großen Hauptsitz von Magna-Power in Flemington, New Jersey, entworfen, gebaut, getestet und gewartet. Metallbearbeitung, Magnetfertigung, PCB-Bestückung und Burn-in erfolgen vollständig im eigenen Haus – für maximale Kontrolle über Qualität, Kosten und Lieferzeiten.

- Made in USA: Entwicklung, Fertigung und Service unter einem Dach.
- Eigenfertigung: Metallbearbeitung, Magnetfertigung, SMT-PCBs und Oberflächenbehandlung.
- Bewährte Zuverlässigkeit: Jedes Gerät wird vollständig getestet, kalibriert und eingebrannt.

Weltweiter Service & OEM-Ersatzteilsupport

Fachwissen ab Werk, Reaktion vor Ort.

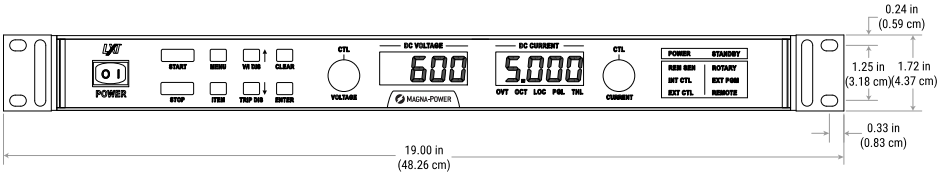


Magna-Power unterstützt seine Produkte mit werks- und autorisierten Servicezentren in Nordamerika, Europa, Großbritannien, dem asiatisch-pazifischen Raum, Ostasien und Südamerika – mit werkseitigen Verfahren und Originalteilen, um Geräte innerhalb und außerhalb der Garantie auf die ursprünglichen Spezifikationen zurückzusetzen.

- Globale Abdeckung: Hauptsitz in New Jersey sowie regionale autorisierte Servicezentren.
- Einheitliche Reparaturen: Werksdiagnosen, Arbeitsanweisungen und Systemdiagramme.
- Original-OEM-Teile: Geprüfte Ersatzbaugruppen für planbaren Service mit minimalen Ausfallzeiten.

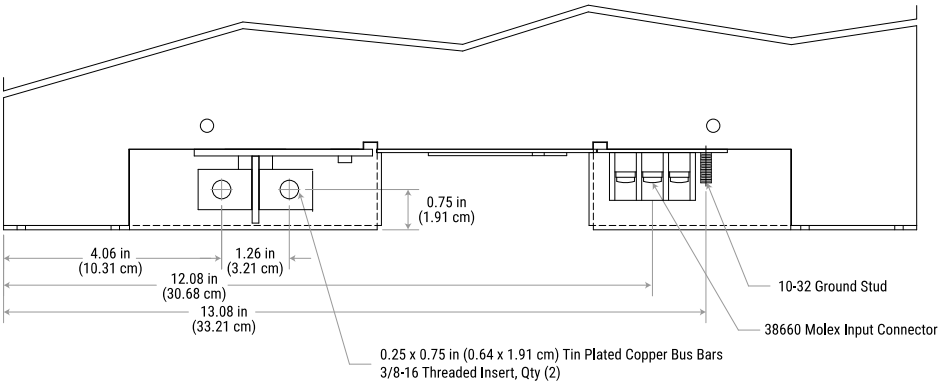
7 Diagramme

Front Panel

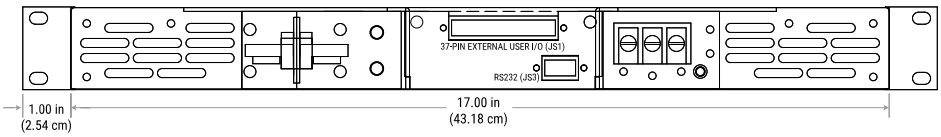


Top Panel

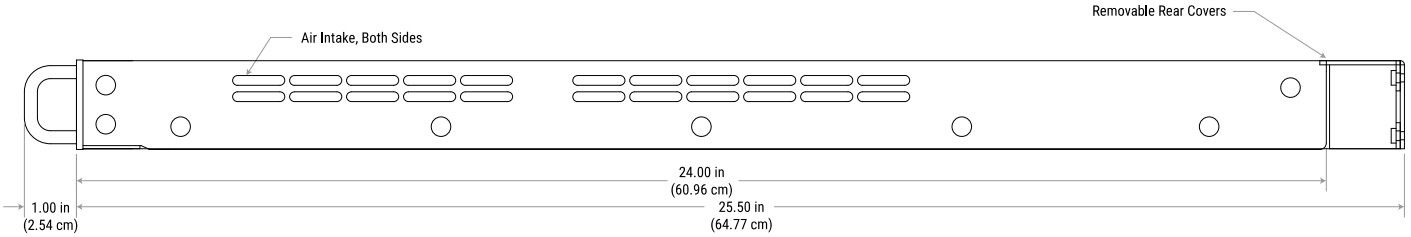
Rear Side



Rear Panel

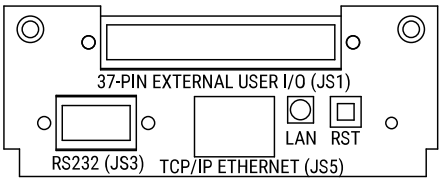


Side Panel



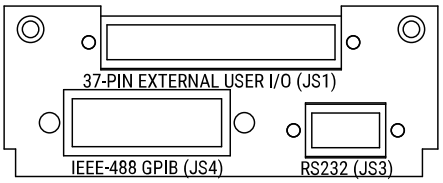
Communications Interface

LXI TCP/IP Ethernet Option (+LXI)



Communications Interface

IEEE-488 GPIB Option (+GPIB)



8 Integrierte Optionen verfügbar

+HS High Slew Rate Output

Eine Hardware- und Steuerungsmodifikation, die die Standard-Ausgangsstufe durch Folienkondensatoren mit niedriger Kapazität und/oder Aluminium-Elektrolytkondensatoren mit hohem RMS-Nennstrom ersetzt. Diese Option bietet eine höhere Bandbreite mit schnelleren Anstiegs- und Abfallzeiten am Ausgang.

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

Voltage Maximum Rating (Vdc)	Output Capacitance (uF)	Output Voltage Ripple (Vrms)
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
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) Kommunikationsschnittstelle mit vollständiger Befehlsunterstützung und Kompatibilität mit anderen GPIB-Geräten

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.

+LXI LXI TCP/IP Ethernet

TCP/IP Ethernet-Kommunikationsprotokoll und einzelne RJ-45-Schnittstelle, zertifiziert nach dem LXI Class C-Standard, für Socket-Kommunikation über konventionelle Computernetzwerke

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.

+RUG Ruggedized

Interne Produkthärtung, die unabhängig getestet wurde, um ausgewählte MIL-STD-810G- und RTCA DO-160-Schock- und Vibrationsspezifikationen zu erfüllen.

The Ruggedized Option (+RUG) provides additional mechanical security for large power components and sub-assemblies within SLx Series, SL Series, and XR Series products.

SLx Series, SL Series, and XR Series units with the Ruggedized Option have been independently tested to comply with the following MIL-STD-810G shock and vibration specifications:

- MIL-STD-810G CHG1 Method 516.7 Functional Shock, Procedure I; which subjects the product to 40G, 11 ms terminal saw tooth pulse; three shocks in each direction along three mutually perpendicular axes
- MIL-STD-810G CHG1 Method 514.7 Vibration; which subjects the product to two hours of vibration per axis along three mutually perpendicular axes

In addition to the specifications listed above, the air cooled SLx Series products with the Ruggedized Option have also been independently tested to comply with RTCA/DO-160G Section 8.0 Vibration, Profile B4 with its associated total energy of 2.2

G_{rms} for equipment installed in Fixed Wing aircrafts with Turbojet or Turbofan engines.

With the Ruggedized Option, SL Series and XR Series products maintain ambient operating temperatures from -25°C to 50°C, while SLx Series products maintain ambient operating temperatures from 0ºC to 50ºC. Storage temperature for all products is rated from -40°C to +85°C.

9 Produktbilder









Qty (30) 2.6 kW SL Series units packaged into Qty (2) CAB2, with enclosure panels removed [Angled]



SL Series power supply with the C Version front panel.



Qty (39) 6 kW SL Series units packaged into Qty (2) CAB2 [Left] and Qty (1) CAB1 [Right]



Qty (30) 2.6 kW SL Series units packaged into Qty (2) CAB2, with enclosure panels removed [Front]



Qty (30) 2.6 kW SL Series units packaged into Qty (2) CAB2, with enclosure panels removed [Rear]

10 Downloads

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

11 Kontakt

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