



Product Catalog

TDK-Lambda Power Supplies, DC-DC Converters and EMI Filters

TRUSTED • INNOVATIVE • RELIABLE



Programmable Power Supplies, Sources and Loads

Applications

- Test & Measurement ATE
- Battery Simulation
- Component Burn-in
- Plating and Etching
- Industrial
- Medical
- Semiconductor
- Automotive
- Renewable Energy
- Oil & Gas
- Avionics & Defense/COTS
- Communications
- Applied/Laboratory R&D



Features (Genesys™)

- Output Voltage Ratings up to 1500V
- Output Current Ratings up to 1000A
- Output Power from 600W to 15kW
- World-wide single-phase/three-phase AC Inputs (w/ PFC)
- Constant Voltage (CV) or Constant Current (CC) operation w/ Auto-Crossover
- Built-In RS-232/RS-485 and Analog Program/Monitor (5V/10V) Interfaces
- Optional LAN, USB, IEEE and Isolated Analog (5V/10V or 4-20mA) Interfaces
- Parallel Operation (up to 60kW) / Series Operation
- Bench-Top, Rack-Mount or Chassis-Mount w/ Zero-Stacking
- Safety Agency Approvals & CE/UKCA Marks / 5Yr Warranty

Features (GENESYS+™ Rack-Mount and Rack Systems)

- Output Voltages up to 1500V (Rack-Mount), 600V (Rack Systems)
- Output Current Ratings up to 1500A (Rack-Mount), 4500A (Rack Systems)
- Output Power from 1kW to 15kW (Rack-Mount), 30kW to 60kW (Rack Systems)
- Worldwide single-phase/three-phase AC Inputs w/ PFC
- Constant Voltage (CV) or Constant Current (CC) operation w/ Auto-Crossover
- Advanced Features Built-In (Waveform Generator, Slew-Rate Control, CP Limit, etc.)
- Built-In RS-232/RS-485, LAN, USB and Isolated Analog (5V/10V) Interfaces
- Optional IEEE, EtherCAT and Modbus-TCP Interfaces
- Advanced Parallel Operation (up to 60kW) / Series Operation
- Bench-Top, Rack-Mount, or Chassis-Mount (Rack Mount) w/ Zero-Stacking
- Safety Agency Approvals & CE/UKCA Marks
- Five Year Warranty



Features (Genesys™ AC and Genesys™ AC PRO)

- High Power Density 2 and 3 kVA in 1U, and stackable to 27kVA
- AC and AC+DC models
- 0-350Vac operating range
- High peak current capability
- LAN, USB, RS232/485 and Analog interface standard
- Safety certified per IEC/UL/EN 61010-1 Ed. 3 (cTUVus, T-Mark, CE/UKCA)
- Five year warranty

Features (SFL Programmable DC Loads)

- 300W/1kW models (120V and 500V)
- Stable High Speed Current Control
- High Slew Rate (Up to 30A/us)
- Low Voltage Operation with No Turn-On Delay
- Seven Operating Modes (CC, CR, CP, CV, EXT, Short, CV+Climit)
- Four Operating Modes (Normal, Dynamic, Sequence and Sweep)
- Built-In Memory Function (store/recall eight settings)
- Multi-Channel Triggering (up to ten units)
- Parallel Operation (up to ten units - up to 10kW)
- Bench-top or Rack-Mount w/ Zero-Stacking
- Built-In USB (2.0) Digital Programming Interface
- Optional IEEE (w/ DIDO) Interface and Ripple Measurement Interface
- Safety Agency Compliance & CE/UKCA Marks
- Two Year Warranty

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Listed by Wattage

Programmable AC Power Supply Index by Wattage

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Listed by Wattage

200-800W, 10 to 100V Programmable Power Supplies



Industrial



Test



[Full Datasheet](#)

<https://product.tdk.com/en/power/zplus>

Suitable for bench or 2U rack mounting, the Z+ is a very compact programmable power supply offering power levels from 200 to 800W, voltages of up to 100V and currents of up to 72A. Multiple remote programming methods are available including built-in USB, RS232 & RS485 and optional LAN, GPIB & isolated analogue interfaces. The units can operate in either constant current or constant voltage mode and accept a wide 85-265Vac input. The product is backed with a five year warranty.

Features	Benefits
• 2U high	• Low Profile
• Built-in USB, RS-232 & RS-485 Interface	• No Additional Cost
• Optional LAN, GPIB & Isolated Analog Programming	• Programmable Remote Operation
• Bench or Rack Mount	• Flexible Mounting
• Constant Current or Voltage Modes	• Seamless Transition (Auto Crossover)
• Five Year Warranty	• Low Cost of Ownership

Model Selector								
Model (Note: Add appropriate suffix for the AC line cord)	Voltage Adjust Range (V)	Current Adjust Range (A)	Max Power (W)	Ripple 5Hz-1MHz (mV)	Noise 20MHz BW (mV)	Ripple 5Hz-1MHz (mA)	Efficiency (100-200Vac) (%)	Front Panel Output Jacks (Option)
Z10-20	0 - 10	0 - 20	200	5	50	25	80 / 82	Yes
Z10-40	0 - 10	0 - 40	400	5	50	70	80 / 82	Yes
Z10-60	0 - 10	0 - 60	600	5	50	150	80 / 82	Yes
Z10-72	0 - 10	0 - 72	720	5	50	180	80 / 82	Yes
Z20-10	0 - 20	0 - 10	200	6	50	15	82 / 84	Yes
Z20-20	0 - 20	0 - 20	400	6	50	40	81 / 83	Yes
Z20-30	0 - 20	0 - 30	600	5	50	75	82 / 84	Yes
Z20-40	0 - 20	0 - 40	800	5	50	100	82 / 84	Yes
Z36-6	0 - 36	0 - 6	216	6	50	8	83 / 85	Yes
Z36-12	0 - 36	0 - 12	432	6	50	15	83 / 85	Yes
Z36-18	0 - 36	0 - 18	648	5	50	25	84 / 85	Yes
Z36-24	0 - 36	0 - 24	864	5	50	31	84 / 85	Yes
Z60-3.5	0 - 60	0 - 3.5	210	7	50	4	83 / 85	Yes
Z60-7	0 - 60	0 - 7	420	7	50	8	83 / 85	Yes
Z60-10	0 - 60	0 - 10	600	12	50	8	83 / 85	Yes
Z60-14	0 - 60	0 - 14	840	12	60	28	83 / 85	Yes
Z100-2	0 - 100	0 - 2	200	8	80	3	83 / 85	No
Z100-4	0 - 100	0 - 4	400	8	80	3	84 / 86	No
Z100-6	0 - 100	0 - 6	600	15	80	5	84 / 86	No
Z100-8	0 - 100	0 - 8	800	15	80	12	84 / 86	No

Part Number Example

Z10	-	20	-	LAN	-	L	-	U
Series & output voltage		Output current		blank USB, RS-232/RS-485 (All models) IEEE GPIB Interface** IS510 Voltage Programming Isolated Analog Interface** IS420 Current Programming Isolated Analog Interface** LAN LAN Interface (Complies with "LXI" Class C)		blank No front output jacks -L Output jacks* -L2 Output jacks* (insulated)		Blank AC Line cord U No AC cord supplied E North America cord J European cord I Japan cord I Middle East cord
								Plug Type - NEMA 5-15P CEE 7/II JIS C8303 SI 32

* Requires wide body case (105mm wide), limited to 24A maximum

** Requires wide body case (105mm wide)

Notes: -U option line cord preferred in the Americas.
-E option supplied with unit in Europe

200-800W, 160 to 650V Programmable Power Supplies



Industrial



Test

[Full Datasheet](#)

<https://product.tdk.com/en/power/zplus>

Suitable for bench or 2U rack mounting, the Z+ is a very compact programmable power supply offering power levels from 200 to 800W, voltages from 160 to 650V and currents of up to 5A. Multiple remote programming methods are available including built-in USB, RS232 & RS485 and optional LAN, GPIB & isolated analogue interfaces. The units can operate in either constant current or constant voltage mode and accept a wide 85-265Vac input. The product is backed with a five year warranty.

Features

- 2U high
- Built-in USB, RS-232 & RS-485 Interface
- Optional LAN, GPIB & Isolated Analog Programming
- Bench or Rack Mount
- Constant Current or Voltage Modes
- Five Year Warranty

Benefits

- Low Profile
- No Additional Cost
- Programmable Remote Operation
- Flexible Mounting
- Seamless Transition (Auto Crossover)
- Low Cost of Ownership

Model Selector

Model (Note: Add appropriate suffix for the AC line cord)	Voltage Adjust Range (V)	Current Adjust Range (A)	Maximum Power (W)	Ripple Voltage (RMS) 5Hz-1MHz (mV)	Noise Voltage 20MHz BW (mV)	Ripple Current (RMS) 5Hz-1MHz (mA)	Efficiency (100-200Vac) (%)	Front Panel Output Jacks (Option)
Z160-1.3	0 - 160	0 - 1.3	208	10	100	1.2	79 / 81	Yes
Z160-2.6	0 - 160	0 - 2.6	416	10	100	1.5	84 / 86	Yes
Z160-4	0 - 160	0 - 4	640	10	100	2	86.5 / 88.5	Yes
Z160-5	0 - 160	0 - 5	800	10	100	2	86.5 / 88.5	Yes
Z320-0.65	0 - 320	0 - 0.65	208	25	150	0.8	79 / 81	Yes
Z320-1.3	0 - 320	0 - 1.3	416	25	150	1	84 / 86	Yes
Z320-2	0 - 320	0 - 2	640	30	150	1.5	87 / 88.5	Yes
Z320-2.5	0 - 320	0 - 2.5	800	30	150	1.5	86.5 / 89	Yes
Z375-2.2	0 - 375	0 - 2.2	825	30	150	1.5	87.5 / 89.5	Yes
Z650-0.32	0 - 650	0 - 0.32	208	60	150	0.5	79 / 81	Yes
Z650-0.64	0 - 650	0 - 0.64	416	60	150	0.6	84 / 86	Yes
Z650-1	0 - 650	0 - 1	650	60	250	1	86.5 / 88.5	Yes
Z650-1.25	0 - 650	0 - 1.25	812	60	250	1	87 / 89	Yes

Part Number Example

Z160		-	1.3	-	LAN		-	L2		-	U		
Series & output voltage	Output current	blank		USB, RS-232/RS-485 (All models)		blank	No front output jacks	-L2	Output jacks* (insulated)		AC Line cord		Plug Type
		IEEE		GPIB Interface*						Blank	No AC cord supplied		-
		IS510		Voltage Programming Isolated Analog Interface*						U	North America cord		NEMA 5-15P
		IS420		Current Programming Isolated Analog Interface*						E	European cord		CEE 7/II
		LAN		LAN Interface (Complies with "LXI" Class C)						J	Japan cord		JIS C8303
										I	Middle East cord		SI 32

* Requires wide body case (105mm wide)

Notes: -U option line cord preferred in the Americas.
-E option supplied with unit in Europe

General-Purpose Programmable DC Power Supplies (Single Output in 1U, 2U and 3U Profile)



<https://www.us.lambda.tdk.com/products/programmable-power/genesys.html>

The **Genesys™** DC Programmable Power Supply Series is a general-purpose, solution that provides high power density from 600W to 15kW with a complete set of reliable and user-friendly front panel, Remote Analog programming and Remote Digital communication interfaces. This series offers Output voltages from 6V to 1500V and several AC Inputs (single-phase/three-phase) with Power-Factor Correction.

Remote interfaces include the built-in Analog (5V/10V) Program/Monitor/Control and Digital (RS-232/RS-485) Communication Interfaces along with the optional LAN (**LXI** 1.5), IEEE (488.2), USB (2.0) and Isolated Analog (5V/10V or 4-20mA) Interfaces.

Features	Benefits
• Single Output: Models from 6V to 1500V (750W to 15kW)	• Flexibility in model choice and AC Input
• Worldwide AC Inputs (single/three-phase) with Active Power Factor Correction	• Lightweight, high efficiency, reliable operation
• CV/CC operation with Auto-Crossover / 0°C to +50°C operation	• Flexibility in Digital/Isolated Analog Interface selection
• Built-In Interfaces: Front Panel, RS-232/RS-485, Remote Analog (5V/10V)	• Easy physical implementation (bench-top or rack-mount)
• Digital Interfaces (optional): LAN (LXI 1.5) , USB (2.0), IEEE (488.2)	• Higher power (parallel) or higher voltage (series) capability
• Isolated Analog Interfaces (optional): IS510 (5V/10V), IS420 (4-20mA)	• Simple and similar front panel/rear panel operation (750W - 15kW)
• Worldwide Safety Agency Approvals / CE Mark / 5Yr Warranty	• Built-In Safety/EMC/RoHS compliance

750W Programmable DC Power Supplies (Single Output in 1U Half-Rack Profile)



Model Number	Voltage Adjust Range (V)	Current Adjust Range (A)	Rated Output Power (W)	Voltage Ripple (20MHz) (mVpp)	Current Ripple (5Hz ~ 1MHz) (mArms)	Efficiency (100VAC/200VAC) (%)
GENH 6-100	0 - 6	0 - 100	600	60	200	76 / 78
GENH 8-90	0 - 8	0 - 90	720	60	180	78 / 81
GENH 12.5-60	0 - 12.5	0 - 60	750	60	120	81 / 84
GENH 20-38	0 - 20	0 - 38	760	60	76	82 / 85
GENH 30-25	0 - 30	0 - 25	750	60	63	82 / 85
GENH 40-19	0 - 40	0 - 19	760	60	48	83 / 87
GENH 60-12.5	0 - 60	0 - 12.5	750	60	38	83 / 87
GENH 80-9.5	0 - 80	0 - 9.5	760	80	29	83 / 87
GENH 100-7.5	0 - 100	0 - 7.5	750	80	23	83 / 87
GENH 150-5	0 - 150	0 - 5	750	100	18	83 / 87
GENH 300-2.5	0 - 300	0 - 2.5	750	150	13	83 / 87
GENH 600-1.3	0 - 600	0 - 1.3	780	300	8	83 / 87

GENH	30	-	25	-	LAN	-	U
Product Series: GENH (Half-Rack 750W)	Output voltage		Output current		LAN: LAN Interface IEMD: IEEE (GPIB) Interface USB: USB (2.0) Interface IS510: Isolated Analog (5V/10V) IS420: Isolated Analog (4-20mA)		U: North American Linecord

Examples: **GENH 30-25-U**, **GENH 60-12.5-LAN-U**, **GENH 100-7.5-IEEE-U**

750W Programmable DC Power Supplies (Single Output in 1U Full-Rack Profile)



Model Number	Voltage Adjust Range (V)	Current Adjust Range (A)	Rated Output Power (W)	Voltage Ripple (20MHz) (mVpp)	Current Ripple (5Hz ~ 1MHz) (mArms)	Efficiency (100VAC/200VAC) (%)
GEN 6-100	0 - 6	0 - 100	600	60	200	77 / 80
GEN 8-90	0 - 8	0 - 90	720	60	180	78 / 81
GEN 12.5-60	0 - 12.5	0 - 60	750	60	120	83 / 86
GEN 20-38	0 - 20	0 - 38	760	60	76	83 / 86
GEN 30-25	0 - 30	0 - 25	750	60	63	82 / 85
GEN 40-19	0 - 40	0 - 19	760	60	48	84 / 88
GEN 60-12.5	0 - 60	0 - 12.5	750	60	38	84 / 88
GEN 80-9.5	0 - 80	0 - 9.5	760	80	29	84 / 88
GEN 100-7.5	0 - 100	0 - 7.5	750	80	23	84 / 88
GEN 150-5	0 - 150	0 - 5	750	100	18	84 / 88
GEN 300-2.5	0 - 300	0 - 2.5	750	120	13	83 / 87
GEN 600-1.3	0 - 600	0 - 1.3	780	300	8	83 / 87

GEN	60	-	12.5	-	USB	-	U
Product Series: GEN (Full-Rack 750W)	Output voltage		Output current		LAN: LAN Interface IEMD: IEEE (GPIB) Interface USB: USB (2.0) Interface IS510: Isolated Analog (5V/10V) IS420: Isolated Analog (4-20mA)		U: North American Linecord

Examples: **GEN 60-12.5-U**, **GEN 600-1.6-USB-U**, **GEN 100-7.5-IEEE-U**

1500W Programmable DC Power Supplies (Single Output in 1U Full-Rack Profile)



Model Number	Voltage Adjust Range (V)	Current Adjust Range (A)	Rated Output Power (W)	Voltage Ripple (20MHz) (mVpp)	Current Ripple (5Hz ~ 1MHz) (mArms)	Efficiency (100VAC/200VAC) (%)
GEN 6-200	0 - 6	0 - 200	1200	60	400	77 / 80
GEN 8-180	0 - 8	0 - 180	1440	60	360	78 / 81
GEN 12.5-120	0 - 12.5	0 - 120	1500	60	240	83 / 86
GEN 20-76	0 - 20	0 - 76	1520	60	152	83 / 86
GEN 30-50	0 - 30	0 - 50	1500	60	125	82 / 85
GEN 40-38	0 - 40	0 - 38	1520	60	95	84 / 88
GEN 50-30	0 - 50	0 - 30	1500	60	85	84 / 88
GEN 60-25	0 - 60	0 - 25	1500	60	75	84 / 88
GEN 80-19	0 - 80	0 - 19	1520	80	57	84 / 88
GEN 100-15	0 - 100	0 - 15	1500	80	45	84 / 88
GEN 150-10	0 - 150	0 - 10	1500	100	35	84 / 88
GEN 300-5	0 - 300	0 - 5	1500	120	25	83 / 87
GEN 600-2.6	0 - 600	0 - 2.6	1560	300	12	83 / 87

GEN	600	-	2.6	-	IEEE
Product Series: GEN (Half-Rack 750W)	Output voltage		Output current		LAN: LAN Interface IEMD: IEEE (GPIB) Interface USB: USB (2.0) Interface IS510: Isolated Analog (5V/10V) IS420: Isolated Analog (4-20mA)

Examples: **GEN 30-50-LAN**, **GEN 100-15**, **GEN 300-5-IEEE**

2400W Programmable DC Power Supplies (Single Output in 1U Full-Rack Profile)



Model Number	Voltage Adjust Range (V)	Current Adjust Range (A)	Rated Output Power (W)	Voltage Ripple (20MHz) (mVpp)	Current Ripple (5Hz ~ 1MHz) (mAmps)	Efficiency (3P208) (%)
GEN 8-300	0 - 8	0 - 300	2400	60	1200	84
GEN 10-240	0 - 10	0 - 240	2400	60	960	84
GEN 16-150	0 - 16	0 - 150	2400	60	600	86
GEN 20-120	0 - 20	0 - 120	2400	60	480	86
GEN 30-80	0 - 30	0 - 80	2400	60	220	88
GEN 40-60	0 - 40	0 - 60	2400	60	120	88
GEN 60-40	0 - 60	0 - 40	2400	60	70	88
GEN 80-30	0 - 80	0 - 30	2400	80	50	88
GEN 100-24	0 - 100	0 - 24	2400	80	40	88
GEN 150-16	0 - 150	0 - 16	2400	100	30	88
GEN 300-8	0 - 300	0 - 8	2400	200	15	88
GEN 600-4	0 - 600	0 - 4	2400	300	7	87

GEN	10	-	240	-	USB	-	1P230
Product Series: GEN (Full-Rack 2400W)	Output voltage		Output current		LAN: LAN Interface IEMD: IEEE (GPIB) Interface USB: USB (2.0) Interface IS510: Isolated Analog (5V/10V) IS420: Isolated Analog (4-20mA)		1P230: Single-phase 230VAC 3P208: Three-phase 208VAC

Examples: **GEN 10-240-1P230**, **GEN 600-4-USB-3P208**, **GEN 60-40-LAN-1P230**

3300W Programmable DC Power Supplies (Single Output in 2U Full-Rack Profile)



Model Number	Voltage Adjust Range (V)	Current Adjust Range (A)	Rated Output Power (W)	Voltage Ripple (20MHz) (mVpp)	Current Ripple (5Hz ~ 1MHz) (mAmps)	Efficiency (1P230/3P208/3P480) (%)
GEN 8-400	0 - 8	0 - 400	3200	60	1300	82
GEN 10-330	0 - 10	0 - 330	3300	60	1200	83
GEN 15-220	0 - 15	0 - 220	3300	60	880	83
GEN 20-165	0 - 20	0 - 165	3300	60	660	83
GEN 30-110	0 - 30	0 - 110	3300	60	300	86
GEN 40-85	0 - 40	0 - 85	3400	60	200	86
GEN 60-55	0 - 60	0 - 55	3300	60	100	88
GEN 80-42	0 - 80	0 - 42	3360	80	80	88
GEN 100-33	0 - 100	0 - 33	3300	100	70	88
GEN 150-22	0 - 150	0 - 22	3300	100	60	87
GEN 200-16.5	0 - 200	0 - 16.5	3300	275	40	87
GEN 300-11	0 - 300	0 - 11	3300	300	20	87
GEN 600-5.5	0 - 600	0 - 5.5	3300	500	10	87

GEN	60	-	55	-	LAN	3P208
Product Series: GEN (Full-Rack 3.3kW)	Output voltage		Output current		LAN: LAN Interface IEMD: IEEE (GPIB) Interface USB: USB (2.0) Interface IS510: Isolated Analog (5V/10V) IS420: Isolated Analog (4-20mA)	1P230: Single-phase 230VAC 3P208: Three-phase 208VAC 3P480: Three-phase 480VAC

Examples: **GEN 20-165-LAN-1P230**, **GEN 300-11-3P208**, **GEN 8-400-USB-3P480**

5000W Programmable DC Power Supplies (Single Output in 2U Full-Rack Profile)



Model Number	Voltage Adjust Range (V)	Current Adjust Range (A)	Rated Output Power (W)	Voltage Ripple (20MHz) (mVpp)	Current Ripple (5Hz ~ 1MHz) (mArms)	Efficiency (3P208/3P480) (%)
GEN 8-600	0 - 8	0 - 600	4800	75	1950	83
GEN 10-500	0 - 10	0 - 500	5000	75	1800	84
GEN 16-310	0 - 16	0 - 310	4960	75	1400	84
GEN 20-250	0 - 20	0 - 250	5000	75	1000	86
GEN 30-170	0 - 30	0 - 170	5100	75	460	86
GEN 40-125	0 - 40	0 - 125	5000	75	300	88
GEN 60-85	0 - 60	0 - 85	5100	75	150	88
GEN 80-65	0 - 80	0 - 65	5200	80	120	88
GEN 100-50	0 - 100	0 - 50	5000	100	100	88
GEN 150-34	0 - 150	0 - 34	5100	120	90	88
GEN 200-25	0 - 200	0 - 25	5000	220	60	88
GEN 300-17	0 - 300	0 - 17	5100	300	30	88
GEN 400-13	0 - 400	0 - 13	5200	350	25	88
GEN 500-10	0 - 500	0 - 10	5000	400	20	88
GEN 600-8.5	0 - 600	0 - 8.5	5100	500	15	88

GEN	10	-	500	-	LAN	-	3P480
Product Series: GEN (Full-Rack 5kW)	Output voltage		Output current		LAN: LAN Interface IEMD: IEEE (GPIB) Interface USB: USB (2.0) Interface IS510: Isolated Analog (5V/10V) IS420: Isolated Analog (4-20mA)		3P208: Three-phase 208VAC 3P480: Three-phase 480VAC

Examples: **GEN 600-8.5-3P208**, **GEN 10-500-LAN-3P480**, **GEN 60-85-USB-3P208**

10kW Programmable DC Power Supplies (Single Output in 3U Full-Rack Profile)



Model Number	Voltage Adjust Range (V)	Current Adjust Range (A)	Rated Output Power (W)	Voltage Ripple (20MHz) (mVpp)	Current Ripple (5Hz ~ 1MHz) (mArms)	Efficiency (3P208/3P480) (%)
GEN 7.5-1000	0 - 7.5	0 - 1000	7500	60	5300	77
GEN 10-1000	0 - 10	0 - 1000	10000	60	4000	83
GEN 12.5-800	0 - 12.5	0 - 800	10000	60	2560	83
GEN 20-500	0 - 20	0 - 500	10000	60	1000	83
GEN 25-400	0 - 25	0 - 400	10000	60	640	83
GEN 30-333	0 - 30	0 - 333	9990	60	444	83
GEN 40-250	0 - 40	0 - 250	10000	60	250	83
GEN 50-200	0 - 50	0 - 200	10000	75	160	83
GEN 60-167	0 - 60	0 - 167	10020	75	67	83

Continued on next page

GEN	20	-	500	-	USB	-	3P480
Product Series: GEN (Full-Rack 10kW)	Output voltage		Output current		LAN: LAN Interface IEMD: IEEE (GPIB) Interface USB: USB (2.0) Interface IS510: Isolated Analog (5V/10V) IS420: Isolated Analog (4-20mA)		3P208: Three-phase 208VAC 3P400: Three-phase 400VAC 3P480: Three-phase 480VAC

Examples: **GEN 40-250-LAN-3P208**, **GEN 10-1000-3P480**, **GEN 25-400-IEEE-3P208**

10kW Programmable DC Power Supplies (Single Output in 3U Full-Rack Profile)



Model Number	Voltage Adjust Range (V)	Current Adjust Range (A)	Rated Output Power (W)	Voltage Ripple (20MHz) (mVpp)	Current Ripple (5Hz ~ 1MHz) (mA _{rms})	Efficiency (3P208/3P480) (%)
GEN 80-125	0 - 80	0 - 125	10000	100	50	83
GEN 100-100	0 - 100	0 - 100	10000	100	40	83
GEN 125-80	0 - 125	0 - 80	10000	125	32	83
GEN 150-66	0 - 150	0 - 66	9900	150	26	83
GEN 200-50	0 - 200	0 - 50	10000	175	20	83
GEN 250-40	0 - 250	0 - 40	10000	200	16	83
GEN 300-33	0 - 300	0 - 33	9900	200	13	83
GEN 400-25	0 - 400	0 - 25	10000	300	10	83
GEN 500-20	0 - 500	0 - 20	10000	350	8	83
GEN 600-17	0 - 600	0 - 17	10200	350	7	83
GEN 800-12.5	0 - 800	0 - 12.5	10000	700	15	93.5
GEN 1000-10	0 - 1000	0 - 10	10000	800	10	93.5
GEN 1250-8	0 - 1250	0 - 8	10000	1000	6	93.5
GEN 1500-6.7	0 - 1500	0 - 6.7	10050	1400	4	93.5

GEN	1000	-	10	-	LAN	-	3P208
Product Series: GEN (Full-Rack 10kW)	Output voltage		Output current		LAN: LAN Interface IEMD: IEEE (GPIB) Interface USB: USB (2.0) Interface IS510: Isolated Analog (5V/10V) IS420: Isolated Analog (4-20mA)		3P208: Three-phase 208VAC 3P400: Three-phase 400VAC 3P480: Three-phase 480VAC

Examples: **GEN 100-100-3P480**, **GEN 800-12.5-USB-3P208**, **GEN 300-33-LAN-3P208**

15kW Programmable DC Power Supplies (Single Output in 3U Full-Rack Profile)



Model Number	Voltage Adjust Range (V)	Current Adjust Range (A)	Rated Output Power (W)	Voltage Ripple (20MHz) (mVpp)	Current Ripple (5Hz ~ 1MHz) (mA _{rms})	Efficiency (3P208/3P480) (%)
GEN 30-500	0 - 30	0 - 500	15000	60	350	88
GEN 40-375	0 - 40	0 - 375	15000	60	200	88
GEN 50-300	0 - 50	0 - 300	15000	75	150	88
GEN 60-250	0 - 60	0 - 250	15000	75	100	88
GEN 80-187.5	0 - 80	0 - 187.5	15000	100	100	88
GEN100-150	0 - 100	0 - 150	15000	100	100	88
GEN 125-120	0 - 125	0 - 120	15000	125	50	88
GEN 150-100	0 - 150	0 - 100	15000	150	50	88
GEN 200-75	0 - 200	0 - 75	15000	175	20	88
GEN 250-60	0 - 250	0 - 60	15000	200	20	88

Continued on next page

GEN	40	-	375	-	USB	-	3P480
Product Series: GEN (Full-Rack 5kW)	Output voltage		Output current		LAN: LAN Interface IEMD: IEEE (GPIB) Interface USB: USB (2.0) Interface IS510: Isolated Analog (5V/10V) IS420: Isolated Analog (4-20mA)		3P208: Three-phase 208VAC 3P400: Three-phase 400VAC 3P480: Three-phase 480VAC

Examples: **GEN 40-375-USB-3P208**, **GEN 150-100-3P480**, **GEN 300-50-LAN-3P208**

15kW Programmable DC Power Supplies (Single Output in 3U Full-Rack Profile)



Model Number	Voltage Adjust Range (V)	Current Adjust Range (A)	Rated Output Power (W)	Voltage Ripple (20MHz) (mVpp)	Current Ripple (5Hz ~ 1MHz) (mA _{rms})	Efficiency (3P208/3P480) (%)
GEN 300-50	0 - 300	0 - 50	15000	200	20	88
GEN 400-37.5	0 - 400	0 - 37.5	15000	300	10	88
GEN 500-30	0 - 500	0 - 30	10000	350	10	88
GEN 600-25	0 - 600	0 - 25	15000	350	10	88
GEN 800-18.8	0 - 800	0 - 18.8	15040	700	15	93.5
GEN 1000-15	0 - 1000	0 - 15	15000	800	10	93.5
GEN 1250-12	0 - 1250	0 - 12	15000	1000	6	93.5
GEN 1500-10	0 - 1500	0 - 10	15000	1400	4	93.5

GEN	1250	-	12	-	USB	-	3P480
Product Series: GEN (Full-Rack 10kW)	Output voltage		Output current		LAN: LAN Interface IEMD: IEEE (GPIB) Interface USB: USB (2.0) Interface IS510: Isolated Analog (5V/10V) IS420: Isolated Analog (4-20mA)		3P208: Three-phase 208VAC 3P400: Three-phase 400VAC 3P480: Three-phase 480VAC

Examples: **GEN 600-100-3P480**, **GEN 1250-12.5-USB-3P208**, **GEN 300-33-LAN-3P208**

High Performance Programmable DC Power Supplies (Single Output in 1U, 2U and 3U Profile)



<https://www.us.lambda.tdk.com/products/programmable-power/genesys-plus.html>

The **GENESYS+™** DC Programmable Power Supply Series offers advanced features in a lightweight high power density profile (from 1kW to 15kW) with a complete set of user - friendly Analog programming and Digital communication interfaces.

This series offers Output voltages from 10V to 1500V and worldwide AC inputs (wide-range 85-265VAC, single-phase 230VAC, three-phase 208VAC and wide-range three-phase 480VAC) for easy and flexible system integration.

Remote interfaces include the built-in Isolated Analog (5V/10V) Program/Monitor/Control, LAN (**LXI** 1.5), USB (2.0) and RS-232/RS-485 along with the optional IEEE (488.2), Modbus-TCP, EtherCAT and Isolated Analog (4-20mA) interfaces.

Features

- Single Output: Models from 6V to 1500V (1U Half-Rack 1kW to 3U Full-Rack 15kW)
- Worldwide AC Inputs (single/three-phase) with Active Power-Factor-Correction
- CV/CC/CP Limit operation with Auto-Crossover / 0°C to +50°C operation
- Advanced Features Built-In: Slew-Rate Control (V/I), Waveform Generator w/ Auto-Trigger and Internal Resistance Programming, Multi-Drop Operation
- Built-In Interfaces: Front Panel, LAN (LXI 1.5), USB (2.0), RS-232/RS-485, Isolated Analog
- Digital Interfaces (optional): IEEE (488.2), Modbus-TCP, EtherCAT
- Analog Interfaces (optional): IS420 (4-20mA)
- Worldwide Safety Agency Approvals / CE Mark / 5Yr Warranty

Benefits

- Flexibility in model choice and AC Input
- Higher efficiency, lighter weight, reliable operation
- Multiple Digital Interface offering
- Simple setup for advanced features
- Easy parallel capability for high power systems
- Bench-top or rack-mount capability built-in
- Quiet operation (reduced audible noise)
- Built-In Safety/EMC/RoHS compliance

1kW Programmable DC Power Supplies Single Output in 1U Half-Rack Profile Standard Front Panel (GH), Blank Front Panel (GHB)



Model Selector

Model	Voltage Adjust Range (V)	Current Adjust Range (A)	Rated Output Power (W)	Voltage Ripple (20MHz) (mVpp)	Current Ripple (5Hz ~ 1MHz) (mArms)	Efficiency (100VAC/200VAC) (%)
GH10-100	0 - 10	0 - 100	1000	50	≤ 420	86/88
GH20-50	0 - 20	0 - 50	1000	50	≤ 160	87/89
GH30-34	0 - 30	0 - 34	1020	50	≤ 100	87/89
GH40-25	0 - 40	0 - 25	1000	60	≤ 60	87/89
GH60-17	0 - 60	0 - 17	1020	60	≤ 50	87/89
GH80-12.5	0 - 80	0 - 12.5	1000	75	≤ 30	87/89
GH100-10	0 - 100	0 - 10	1000	75	≤ 20	88/90
GH150-7	0 - 150	0 - 7	1050	75	≤ 10	88/90
GH300-3.5	0 - 300	0 - 3.5	1050	200	≤ 8	88/90
GH600-1.7	0 - 600	0 - 1.7	1020	500	≤ 5	88/90

GH/GHB	30	-	34	-	IEEE	-	U
	Output voltage		Output current		IEEE: IEEE (GPIB) Interface ECAT: EtherCAT Interface MDBS: Modbus-TCP Interface		U: North American Linecord
Product Series: GH/GHB (Half-Rack 1kW)							

Examples: **GH30-34-U**, **GH60-17-IEEE-U**, **GHB100-10-IEEE-U**

1.5kW Programmable DC Power Supplies

Single Output in 1U Half-Rack Profile

Standard Front Panel (GH), Blank Front Panel (GHB)



Model Selector						
Model	Voltage Adjust Range (V)	Current Adjust Range (A)	Rated Output Power (W)	Voltage Ripple (20MHz) (mVpp)	Current Ripple (5Hz ~ 1MHz) (mArms)	Efficiency (100VAC/200VAC) (%)
GH10-150	0 - 10	0 - 150	1500	50	≤ 250	86/88
GH20-75	0 - 20	0 - 75	1500	50	≤ 130	87/89
GH30-50	0 - 30	0 - 50	1500	50	≤ 100	87/89
GH40-38	0 - 40	0 - 38	1520	60	≤ 60	87/89
GH60-25	0 - 60	0 - 25	1500	60	≤ 50	87/89
GH80-19	0 - 80	0 - 19	1520	75	≤ 30	87/89
GH100-15	0 - 100	0 - 15	1500	130	≤ 40	88/90
GH150-10	0 - 150	0 - 10	1500	75	≤ 10	88/90
GH300-5	0 - 300	0 - 5	1500	180	≤ 8	88/90
GH600-2.6	0 - 600	0 - 2.6	1560	500	≤ 5	88/90

GH/GHB	60	-	25	-	MDBS	
Product Series: GH/GHB (Half-Rack 1.5kW)	Output voltage		Output current		IEEE: IEEE (GPIB) Interface ECAT: EtherCAT Interface MDBS: Modbus-TCP Interface	

Examples: **GH20-75**, **GH100-15-ECAT**, **GHB10-150**

1kW Programmable DC Power Supplies

Single Output in 1U Full-Rack Profile

Standard Front Panel (G), Blank Front Panel (GB)



Model Selector						
Model	Voltage Adjust Range (V)	Current Adjust Range (A)	Rated Output Power (W)	Voltage Ripple (20MHz) (mVpp)	Current Ripple (5Hz ~ 1MHz) (mArms)	Efficiency (100VAC/200VAC) (%)
G10-100	0 - 10	0 - 100	1000	50	≤ 420	86/88
G20-50	0 - 20	0 - 50	1000	50	≤ 160	87/89
G30-34	0 - 30	0 - 34	1020	50	≤ 100	87/89
G40-25	0 - 40	0 - 25	1000	60	≤ 60	87/89
G60-17	0 - 60	0 - 17	1020	60	≤ 50	87/89
G80-12.5	0 - 80	0 - 12.5	1000	75	≤ 30	87/89
G100-10	0 - 100	0 - 10	1000	75	≤ 20	88/90
G150-7	0 - 150	0 - 7	1050	75	≤ 10	88/90
G300-3.5	0 - 300	0 - 3.5	1050	120	≤ 8	88/90
G600-1.7	0 - 600	0 - 1.7	1020	500	≤ 5	88/90

G/GB	10	-	100	-	ECAT	-	U
Product Series: G/GB (Full-Rack 1kW)		Output voltage	Output current	IEEE: IEEE (GPIB) Interface ECAT: EtherCAT Interface MDBS: Modbus-TCP Interface		U: North American Linecord	

Examples: **G60-17-U**, **G300-3.5-MDBS**, **GB40-25-U**

1.7kW Programmable DC Power Supplies

Single Output in 1U Full-Rack Profile

Standard Front Panel (G), Blank Front Panel (GB)



Model Selector						
Model	Voltage Adjust Range (V)	Current Adjust Range (A)	Rated Output Power (W)	Voltage Ripple (20MHz) (mVpp)	Current Ripple (5Hz ~ 1MHz) (mArms)	Efficiency (100VAC/200VAC) (%)
G10-170	0 - 10	0 - 170	1700	50	≤ 420	86/88
G20-85	0 - 20	0 - 85	1700	50	≤ 160	87/89
G30-56	0 - 30	0 - 56	1680	50	≤ 100	87/89
G40-42	0 - 40	0 - 42	1680	60	≤ 60	87/89
G60-28	0 - 60	0 - 28	1680	60	≤ 50	87/89
G80-21	0 - 80	0 - 21	1680	75	≤ 30	87/89
G100-17	0 - 100	0 - 17	1700	75	≤ 20	88/90
G150-11.2	0 - 150	0 - 11.2	1680	75	≤ 10	88/90
G300-5.6	0 - 300	0 - 5.6	1680	120	≤ 8	88/90
G600-2.8	0 - 600	0 - 2.8	1680	500	≤ 5	88/90

G/GB	600	-	2.8	-	IEEE
	Output voltage		Output current		IEEE: IEEE (GPIB) Interface ECAT: EtherCAT Interface MDBS: Modbus-TCP Interface
Product Series: G/GB (Full-Rack 1.7kW)					

Examples: **G40-42**, **G80-21-IEEE**, **GB100-17**

2.7kW Programmable DC Power Supplies

Single Output in 1U Full-Rack Profile

Standard Front Panel (G), Blank Front Panel (GB)



Model Selector						
Model	Voltage Adjust Range (V)	Current Adjust Range (A)	Rated Output Power (W)	Voltage Ripple (20MHz) (mVpp)	Current Ripple (3-F, 1-F) (5Hz ~ 1MHz) (mArms)	Efficiency (100VAC/200VAC) (%)
G10-265	0 - 10	0 - 265	2650	75	≤ 800/1200	88
G20-135	0 - 20	0 - 135	2700	75	≤ 450/600	89
G30-90	0 - 30	0 - 90	2700	75	≤ 300/300	89.5
G40-68	0 - 40	0 - 68	2720	75	≤ 150/300	90
G60-45	0 - 60	0 - 45	2700	80	≤ 100/200	90
G80-34	0 - 80	0 - 34	2720	80	≤ 70/100	90.5
G100-27	0 - 100	0 - 27	2700	100	≤ 45/60	90.5
G150-18	0 - 150	0 - 18	2700	120	≤ 30/40	90.5
G300-9	0 - 300	0 - 9	2700	200	≤ 12/12	90.5
G600-4.5	0 - 600	0 - 4.5	2700	480	≤ 5/8	90.5

G/GB	100	-	2.7	-	ECAT	-	3P208
	Output voltage		Output current		IEEE: IEEE (GPIB) Interface ECAT: EtherCAT Interface MDBS: Modbus-TCP Interface		1P208: Single-phase 230VAC 3P208: Three-phase 208VAC 3P480: Three-phase 480VAC
Product Series: G/GB (Full-Rack 2.7kW)							

Examples: **G10-265-1P208**, **G60-45-ECAT-3P480**, **GB600-4.5-3P208**

3.4kW Programmable DC Power Supplies

Single Output in 1U Full-Rack Profile

Standard Front Panel (G), Blank Front Panel (GB)



Model Selector							
Model	Voltage Adjust Range (V)	Current Adjust Range (A)	Rated Output Power (W)	Voltage Ripple (20MHz) (mVpp)	Current Ripple (3-F, 1-F) (5Hz ~ 1MHz) (mA _{rms})	Efficiency (100VAC/200VAC) (%)	
G10-340	0 - 10	0 - 340	3400	75	≤ 800/1200	88	
G20-170	0 - 20	0 - 170	3400	75	≤ 450/600	89	
G30-112	0 - 30	0 - 112	3360	75	≤ 300/300	89.5	
G40-85	0 - 40	0 - 85	3400	75	≤ 150/300	90	
G60-56	0 - 60	0 - 56	3360	80	≤ 100/200	90	
G80-42	0 - 80	0 - 42	3360	80	≤ 70/100	90.5	
G100-34	0 - 100	0 - 34	3400	100	≤ 45/60	90.5	
G150-22.5	0 - 150	0 - 22.5	3375	120	≤ 30/40	90.5	
G300-11.5	0 - 300	0 - 11.5	3450	200	≤ 12/12	90.5	
G600-5.6	0 - 600	0 - 5.6	3360	480	≤ 5/8	90.5	
G/GB	60	-	56	-	MDBS	-	3P480
	Output voltage	Output current		IEEE: IEEE (GPIO) Interface ECAT: EtherCAT Interface MDBS: Modbus-TCP Interface		1P208: Single-phase 230VAC 3P208: Three-phase 208VAC 3P480: Three-phase 480VAC	
Product Series: G/GB (Full-Rack 3.4kW)							

Examples: **G100-34-1P208**, **G40-85-MDBS-3P480**, **GB300-11.5-3P208**

5kW Programmable DC Power Supplies

Single Output in 1U Full-Rack Profile

Standard Front Panel (G), Blank Front Panel (GB)



Model Selector						
Model	Voltage Adjust Range (V)	Current Adjust Range (A)	Rated Output Power (W)	Voltage Ripple (20MHz) (mVpp)	Current Ripple (5Hz ~ 1MHz) (mA _{rms})	Efficiency (%)
G10-500	0 - 10	0 - 500	5000	75	≤ 1200	89
G20-250	0 - 20	0 - 250	5000	75	≤ 600	91
G30-170	0 - 30	0 - 170	5100	75	≤ 300	91
G40-125	0 - 40	0 - 125	5000	75	≤ 150	91
G50-100	0 - 50	0 - 100	5000	75	≤ 130	90
G60-85	0 - 60	0 - 85	5100	75	≤ 100	91
G80-65	0 - 80	0 - 65	5200	80	≤ 70	91
G100-50	0 - 100	0 - 50	5000	90	≤ 45	91
G150-34	0 - 150	0 - 34	5100	120	≤ 45	91
G200-25	0 - 200	0 - 25	5000	200	≤ 45	91
G300-17	0 - 300	0 - 17	5100	200	≤ 15	92
G400-13	0 - 400	0 - 13	5200	400	≤ 12	92
G500-10	0 - 500	0 - 10	5000	450	≤ 10	92
G600-8.5	0 - 600	0 - 8.5	5100	480	≤ 8	92

G/GB	100	-	50	-	ECAT	-	3P208
	Output voltage		Output current		IEEE: IEEE (GPIO) Interface ECAT: EtherCAT Interface MDBS: Modbus-TCP Interface		3P208: Three-phase 208VAC 3P480: Three-phase 480VAC
Product Series: G/GB (Full-Rack 5kW)							

Examples: **G40-125-3P208**, **G20-250-IEEE-3P480**, **GB10-500-3P208**

7.5kW Programmable DC Power Supplies

Single Output in 1U Full-Rack Profile

Standard Front Panel (G), Blank Front Panel (GB)



Model Selector

Model	Voltage Adjust Range (V)	Current Adjust Range (A)	Rated Output Power (W)	Voltage Ripple (20MHz) (mVpp)	Current Ripple (5Hz ~ 1MHz) (mArms)	Efficiency (%)
G20-375	0 - 20	0 - 375	7500	80	≤ 900	91
G30-250*	0 - 30	0 - 250	7500	80*	≤ 900*	91*
G40-188	0 - 40	0 - 188	7520	80	≤ 300	91
G60-125*	0 - 60	0 - 125	7500	90*	≤ 300*	91*
G80-94*	0 - 80	0 - 94	7500	90*	≤ 300*	91*
G100-75	0 - 100	0 - 75	7500	90	≤ 70	91
G150-65	0 - 80	0 - 65	5200	150	≤ 45	91
G200-37.5*	0 - 200	0 - 37.5	7500	450*	< 45*	91*
G300-25*	0 - 300	0 - 25	7500	450*	≤ 45*	91*
G600-12.5	0 - 600	0 - 12.5	7500	450	≤ 14	92
G1000-7.5*	0 - 1000	0 - 7.5	7500	1300*	≤ 14*	92*
G1500-5	0 - 1500	0 - 5	7500	1300	≤ 5	92

G/GB	1000	-	7.5	-	IEEE	-	3P480
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Output voltage

Output current

IEEE: IEEE (GPIB) Interface
ECAT: EtherCAT Interface
MDBS: Modbus-TCP Interface

3P208: Three-phase 208VAC
3P480: Three-phase 480VAC

Product Series: **G/GB** (Full-Rack 7.5kW)

Examples: **G1500-5-3P208**, **G300-25-IEEE-3P480**, **GB60-125-3P208** * = Contact factory

10kW Programmable DC Power Supplies

Single Output in 2U Full-Rack Profile

Standard Front Panel (GSP), Blank Front Panel (GBSP)



Model Selector

Model	Voltage Adjust Range (V)	Current Adjust Range (A)	Rated Output Power (kW)	Voltage Ripple (20MHz) (mVpp)	Current Ripple (5Hz ~ 1MHz) (mArms)	Efficiency (%)
G10-1000	0 - 10	0 - 1000	10	75	≤ 1200	89
G20-500	0 - 20	0 - 500	10	75	≤ 700	90
G30-340	0 - 30	0 - 340	10.2	75	≤ 300	91
G40-250	0 - 40	0 - 250	10	75	≤ 150	91
G50-200	0 - 50	0 - 200	10	75	≤ 100	91
G60-170	0 - 60	0 - 170	10.2	75	≤ 75	91
G80-130	0 - 80	0 - 130	10.4	80	≤ 50	91
G100-100	0 - 100	0 - 100	10	90	≤ 35	91
G150-68	0 - 150	0 - 68	10.2	120	≤ 23	91
G200-50	0 - 200	0 - 50	10	200	≤ 23	91
G300-34	0 - 300	0 - 34	10.2	200	≤ 7.5	92
G400-26	0 - 400	0 - 26	10.4	400	≤ 7.5	92
G500-20	0 - 500	0 - 20	10	450	≤ 8	91
G600-17	0 - 600	0 - 17	10.2	480	≤ 6	92

GSP/GBSP	60	-	170	-	IEEE	-	3P208
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Output voltage

Output current

IEEE: IEEE (GPIB) Interface
ECAT: EtherCAT Interface
MDBS: Modbus-TCP Interface

3P208: Three-phase 208VAC
3P480: Three-phase 480VAC

Product Series: **GSP/GBSP** (Full-Rack 10kW)

Examples: **G150-68-3P208**, **G50-200-MDBS-3P480**, **GB300-34-3P480**

15kW Programmable DC Power Supplies

Single Output in 3U Full-Rack Profile

Standard Front Panel (GSP), Blank Front Panel (GBSP)



Model Selector						
Model	Voltage Adjust Range (V)	Current Adjust Range (A)	Rated Output Power (kW)	Voltage Ripple (20MHz) (mVpp)	Current Ripple (5Hz ~ 1MHz) (mA _{rms})	Efficiency (%)
G10-1500	0 - 10	0 - 1500	15	75	≤ 1200	89
G20-750	0 - 20	0 - 750	15	75	≤ 700	90
G30-510	0 - 30	0 - 510	15.3	75	≤ 300	91
G40-375	0 - 40	0 - 375	15	75	≤ 150	91
G50-300	0 - 50	0 - 300	15	75	≤ 130	91
G60-255	0 - 60	0 - 255	15.3	75	≤ 90	91
G80-195	0 - 80	0 - 195	15.6	80	≤ 60	91
G100-150	0 - 100	0 - 150	15	90	≤ 35	91
G150-102	0 - 150	0 - 102	15.3	120	≤ 23	91
G200-75	0 - 200	0 - 75	15	200	≤ 23	91
G300-51	0 - 300	0 - 51	15.3	200	≤ 7.5	92
G400-39	0 - 400	0 - 39	15.6	400	≤ 7.5	92
G500-30	0 - 500	0 - 30	15	450	≤ 8	91
G600-25.5	0 - 600	0 - 25.5	15.3	480	≤ 6	92

GSP/GBSP	10	-	1500	-	IEEE	-	3P208
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Output voltage

Output current

IEEE: IEEE (GPIB) Interface
ECAT: EtherCAT Interface
MDBS: Modbus-TCP Interface

3P208: Three-phase 208VAC
3P480: Three-phase 480VAC

Product Series: **GSP/GBSP** (Full-Rack 10kW)

Examples: **G150-68-3P208**, **G50-200-MDBS-3P480**, **GB300-34-3P480**

High Performance Programmable Rack DC Power Systems (Single Output in 23U Rack System Profile)



<https://www.us.lambda.tdk.com/products/programmable-power/genplus-rack-dc-systems.html>



The **GENESYS™** DC Programmable Rack DC Power System platform offers advanced features in a portable high power density profile (from 30kW to 60kW) with a complete set of user - friendly Analog programming and Digital communication interfaces.

This series offers Output voltages from 10V to 600V and worldwide AC inputs (three-phase 208VAC and wide-range three-phase 480VAC) for easy and flexible system integration.

Remote interfaces include the built-in Isolated Analog (5V/10V) Program/Monitor/Control, LAN (**LXI** 1.5), USB (2.0) and RS-232/RS-485 along with the optional IEEE (488.2), Modbus-TCP, EtherCAT and Isolated Analog (4-20mA) interfaces.

Features	Benefits
• Single Output: Models from 6V to 600V (23U Stand-Alone Rack DC Power Systems)	• Flexibility in model choice and AC Input
• Worldwide AC Inputs (three-phase) with Active Power-Factor-Correction	• High efficiency, reliable operation (no additional fans in rack)
• CV/CC/CP Limit operation with Auto-Crossover / 0°C to +50°C operation	• Multiple Digital Interface offering
• Advanced Features Built-In: Slew-Rate Control (V/I), Waveform Generator w/ Auto-Trigger and Internal Resistance Programming, Multi-Drop Operation	• Simple setup for advanced features
• Built-In Interfaces: Front Panel, LAN (LXI 1.5), USB (2.0), RS-232/RS-485, Isolated Analog	• Easy parallel capability for high power systems
• Digital Interfaces (optional): IEEE (488.2), Modbus-TCP, EtherCAT	• Portability (built-in casters)
• Analog Interfaces (optional): IS420 (4-20mA)	• Uncomplicated AC Input / DC Output connections
• Worldwide Safety Agency Compliance / CE/UKCA Mark / 5Yr Warranty	• Quiet operation (reduced audible noise)
	• Built-In Safety/EMC/RoHS compliance

30kW Programmable DC Power Supplies Single Output in 23U Rack System Profile Standard Front Panel (GSPS), Blank Front Panel (GBSPS)



Model Selector						
Model	Voltage Adjust Range (V)	Current Adjust Range (A)	Rated Output Power (kW)	Line/Load Regulation (CV mode)	Line/Load Regulation (CC mode)	Efficiency (200VAC/380VAC) (%)
GSPS10-3000	0 - 10	0 - 3000	30	1mV / 6mV	1.5A / 2.4A	87
GSPS20-1500	0 - 20	0 - 1500	30	2mV / 7mV	0.75A / 1.20A	87
GSPS30-1020	0 - 30	0 - 1020	30	3mV / 8mV	0.51A / 0.82A	88
GSPS40-750	0 - 40	0 - 750	30	4mV / 9mV	0.375A / 0.600A	89
GSPS50-600	0 - 50	0 - 600	30	5mV / 10mV	0.30A / 0.48A	89
GSPS60-510	0 - 60	0 - 510	30.6	6mV / 11mV	0.26A / 0.41A	90
GSPS80-390	0 - 80	0 - 390	31.2	8mV / 13mV	0.20A / 0.31A	90
GSPS100-300	0 - 100	0 - 300	30	10mV / 15mV	0.15A / 0.24A	90
GSPS150-204	0 - 150	0 - 204	30.6	15mV / 20mV	0.102A / 0.163A	90
GSPS200-150	0 - 200	0 - 150	30	20mV / 25mV	0.075A / 0.120A	90
GSPS300-102	0 - 300	0 - 102	30.6	30mV / 35mV	0.051A / 0.082A	90
GSPS400-78	0 - 400	0 - 78	31.2	40mV / 45mV	0.039A / 0.062A	90
GSPS500-60	0 - 500	0 - 60	30	50mV / 55mV	0.030A / 0.048A	90
GSPS600-51	0 - 600	0 - 51	30.6	60mV / 65mV	0.026A / 0.041A	90

GSPS/GBSPS	300	-	102	-	ECAT	-	3P480
	Output voltage		Output current		IEEE: IEEE (GPIB) Interface ECAT: EtherCAT Interface MDBS: Modbus-TCP Interface		3P208: Three-phase 208VAC 3P480: Three-phase 480VAC

Product Series: **GSPS/GBSPS** (23U Full-Rack 30kW)

Examples: **GSPS30-1020-3P480, GSPS400-78-IEEE-3P208, GBSPS100-300-IEEE-3P208**

45kW Programmable DC Power Supplies

Single Output in 23U Rack System Profile

Standard Front Panel (GSPS), Blank Front Panel (GBSPS)



Model Selector

Model	Voltage Adjust Range (V)	Current Adjust Range (A)	Rated Output Power (kW)	Line/Load Regulation (CV mode)	Line/Load Regulation (CC mode)	Efficiency (200VAC/380VAC) (%)
GSPS10-4500	0 - 10	0 - 4500	45	1mV / 6mV	2.25A / 3.60A	87
GSPS20-2250	0 - 20	0 - 2250	45	2mV / 7mV	1.13A / 1.80A	87
GSPS30-1530	0 - 30	0 - 1530	45.9	3mV / 8mV	0.77A / 1.22A	88
GSPS40-1125	0 - 40	0 - 1125	45	4mV / 9mV	0.56A / 0.90A	89
GSPS50-900	0 - 50	0 - 900	45	5mV / 10mV	0.45A / 0.72A	89
GSPS60-765	0 - 60	0 - 765	45.9	6mV / 11mV	0.38A / 0.61A	90
GSPS80-585	0 - 80	0 - 585	46.8	8mV / 13mV	0.29A / 0.47A	90
GSPS100-450	0 - 100	0 - 450	45	10mV / 15mV	0.23A / 0.36A	90
GSPS150-306	0 - 150	0 - 306	45.9	15mV / 20mV	0.153A / 0.245A	90
GSPS200-225	0 - 200	0 - 225	45	20mV / 25mV	0.113A / 0.180A	90
GSPS300-153	0 - 300	0 - 153	45.9	30mV / 35mV	0.077A / 0.122A	90
GSPS400-117	0 - 400	0 - 117	46.8	40mV / 45mV	0.059A / 0.094A	90
GSPS500-90	0 - 500	0 - 90	45	50mV / 55mV	0.045A / 0.072A	90
GSPS600-76.5	0 - 600	0 - 76.5	45.9	60mV / 65mV	0.038A / 0.061A	90

GSPS/GBSPS	600	-	76.5	-	MDBS	-	3P480
	Output voltage		Output current		IEEE: IEEE (GPIO) Interface ECAT: EtherCAT Interface MDBS: Modbus-TCP Interface		3P208: Three-phase 208VAC 3P480: Three-phase 480VAC
Product Series: GSPS/GBSPS (23U Full-Rack 45kW)							

Examples: **GSPS300-153-3P208**, **GSPS60-765-ECAT-3P480**, **GBSPS10-4500-3P208**

60kW Programmable DC Power Supplies

Single Output in 23U Rack System Profile

Standard Front Panel (GSPS), Blank Front Panel (GBSPS)



Model Selector

Model	Voltage Adjust Range (V)	Current Adjust Range (A)	Rated Output Power (kW)	Line/Load Regulation (CV mode)	Line/Load Regulation (CC mode)	Efficiency (200VAC/380VAC) (%)
GSPS20-3000	0 - 20	0 - 3000	60	2mV / 7mV	1.50A / 2.40A	87
GSPS30-2040	0 - 30	0 - 2040	61.2	3mV / 8mV	1.20A / 1.64A	88
GSPS40-1500	0 - 40	0 - 1500	60	4mV / 9mV	0.76A / 1.20A	89
GSPS50-1200	0 - 50	0 - 1200	60	5mV / 10mV	0.60A / 0.96A	89
GSPS60-1020	0 - 60	0 - 1020	61.2	6mV / 11mV	0.51A / 0.82A	90
GSPS80-780	0 - 80	0 - 780	62.4	8mV / 13mV	0.390A / 0.624A	90
GSPS100-600	0 - 100	0 - 600	60	10mV / 15mV	0.300A / 0.480A	90
GSPS150-408	0 - 150	0 - 408	61.2	15mV / 20mV	0.204A / 0.326A	90
GSPS200-300	0 - 200	0 - 300	60	20mV / 25mV	0.150A / 0.240A	90
GSPS300-204	0 - 300	0 - 204	61.2	30mV / 35mV	0.102A / 0.163A	90
GSPS400-156	0 - 400	0 - 156	62.4	40mV / 45mV	0.077A / 0.125A	90
GSPS500-120	0 - 500	0 - 120	60	50mV / 55mV	0.060A / 0.096A	90
GSPS600-102	0 - 600	0 - 102	61.2	60mV / 65mV	0.051A / 0.082A	90

GSPS/GBSPS	60	-	1020	-	IEEE	-	3P208
	Output voltage		Output current		IEEE: IEEE (GPIO) Interface ECAT: EtherCAT Interface MDBS: Modbus-TCP Interface		3P208: Three-phase 208VAC 3P480: Three-phase 480VAC
Product Series: GSPS/GBSPS (23U Full-Rack 60kW)							

Examples: **GSPS100-600-3P208**, **GSPS500-120-MDBS-3P480**, **GBSPS20-3000-ECAT-3P480**

2kVA and 3kVA AC Programmable Power Sources



Medical



Industrial



Test



COTS



COMM



Marine

[Full Datasheet](#)

<https://product.tdk.com/en/power/gac>

Suitable for 1U high rack or bench mounting, the GENESYS™ AC (GAC) programmable power sources have a very high power density. The series currently offers power levels of 2kVA and 3kVA, with voltages adjustable from 0V to 350Vac and ± 500 Vdc (GAC-PRO models), currents from 0 to 30Arms and frequencies from 16Hz to 1200Hz, (5000Hz option on GAC-PRO). Multiple remote programming methods are available, including built-in LAN, USB, RS232 & RS485 and optional IEEE/GPIB interface. The GENESYS™ AC PRO models include real time analog control functionality necessary for more complex test scenarios. The GENESYS™ AC series has a full colour LCD, multi-language, touch panel display for ease of use and a GUI interface.

Features

- 1U high
- Full Colour Touch Panel Display
- Built-in USB, LAN, RS-232 & RS-485 (plus others) Interfaces
- Parallelable to 9kW single and multi-phase
- Five Year Warranty

Benefits

- Less Rack Space Used
- Easy to Read and Program
- No Additional Cost
- Scalable for Larger Systems and Multiple Phase Operation
- Low Cost of Ownership

Part Numbering Scheme

An easy to use on-line part number configurator is available. Click [here](#) for EMEA region, click [here](#) for the Americas region.



GAC-PRO		-	03		B		A		1		A		-	00		A		00		A	
Series Name				Front Panel Type/Color				Communication Interface		Frequency Limit						Accessories					
GAC				A - Full Panel (Grey)				1 - Built-in RS232, RS485, USB, LAN		A - AC Mode, 1200Hz						A - None					
GAC-PRO				B - Full Panel (Black)				2 - IEEE/GPIB + built-in RS232, RS485, USB, LAN		B - AC + DC Mode, 1200Hz*								Additional Options			
				C - Blank Panel (Grey)						C - AC + DC Mode, 5000Hz*								00 - None			
				D - Blank Panel (Black)																	
Apparent Output Power				Input Voltage				Avionic Standards *(GAC-PRO Only)													
02 = 2kVA				A - 85-265Vac single phase **				00 - None													
03 = 3kVA				B - 170-265Vac 3-phase				01 - RTCA/DO 160													
06 = 6kVA***				C - 342-528Vac 3-phase				02 - MIL-STD 704													
09 = 9kVA***				** 2kVA, 3kVA only				03 - A350 (Airbus ABD100.1.8.1)													
								04 - RTCA/DO 160 & MIL-STD 704													
								05 - RTCA/DO 160 & A350 (Airbus ABD100.1.8.1)													
								06 - MIL-STD 704 & A350 (Airbus ABD100.1.8.1)													
								07 - RTCA/DO 160 & MIL-STD 704 & A350 (Airbus ABD100.1.8.1)													

High **Performance**
Programmable AC Power



Output Ratings	Genesys™ AC Models		Genesys™ AC-PRO Models	
	GAC-02	GAC-03	GAC-PRO 02	GAC-PRO 03
AC Power	2000VA	3000VA	2000VA	3000VA
Operating Modes	AC		AC, DC, AC+DC	
Phases*	Single Phase per unit*			
AC Voltage Range	0-350 VAC (Single Range)			
AC Current	0 - 20 A RMS	0 - 30 A RMS	0 - 20 A RMS	0 - 30 A RMS
Output Frequency	0~1200 Hz		0-1200 Hz (0-5000Hz option)	
Peak AC Current (Crest Factor)	120 A (6:1 CF)	120 A (4:1 CF)	120 A (6:1 CF)	120 A (4:1 CF)
Load PF	0 - 1 Leading or Lagging			
DC Power	N/A		2000W	3000W
DC Voltage Range	N/A		-500 ~ +500 VDC	
DC Current	N/A	N/A	0 - 20 A	0 - 30 A
DC Current Range	N/A		0-20A DC	0-30A DC

* Multiple identical units are user configurable to parallel to higher power or split and three phase configurations.

Measurement and Analysis

AC / DC Voltage	≤ 0.2 % FS (DC & 16-1200Hz)
RMS / DC Current	≤ 1.0 % FS
Power (Real & Apparent)	≤ 2.25% FS
Frequency	≤ 0.1 % (Above 5% of rated output)
Harmonics (Freq / Harmonic #)	32-50,000 Hz / 2-50 th
Harminic Items	RMS Voltage, RMS Current, Phase Angle, THD



Rear Panel View

Input Characteristics

Available Configurations	Single phase: 85-265VAC (Derate to 1.5kVA below 170VAC), Three Phase: 170-265 VAC or 342-528 VAC
Efficiency	> 85%
Power Factor	Single-phase input 0.98 / Three-phase input 0.94

Programming and Readback

Standard Interfaces	LAN / USB / RS232 / RS485	
	Analog Monitoring	Analog Monitoring and Control
Optional Interface	IEEE / GPIB	
SW and Language	Web Page Monitor, Remote GUI SW & SCPI programmable all standard	

Mechanical

Form Factor	EIC 1U, Aluminum Chassis
Dimensions	H: 43.6mm x W: 423mm x D: 544.5mm / H 1.72" x W: 16.65" x D: 24.5"

Available Pre-Programmed Test Standards

IEC	IEC 61000- 4-11 & 13	IEC 61000- 4-11 & 13
MIL-SPC	N/A	MIL-STD-1399-300 P1, MIL-STD-704
Aero	N/A	RCTA/DO-160, A350

Programmable DC Electronic Loads (300W: Single Input in 3U Half-Rack Profile) (1kW: Single Input in 3U Full-Rack Profile)



<https://www.us.lambda.tdk.com/products/programmable-loads/sfl.html>

The SFL DC Programmable Electronic Load Series is a high performance multi-functional solution available in two voltage levels (120V/500V) over two power levels (300W/1kW) and offers the user flexible load current control to simulate different load conditions. A user-friendly front panel along with built-in and optional interfaces make it suitable for use in product Research, Design and Development.

Standard control Interfaces include a 3.5" color front panel LCD display along with the built-in **USB** and the **EXT-IN** Analog programming (0-10V) interfaces, an optional IEEE Interface (with built-in DIDO for remote PLC controller interfacing) and a Ripple Measurement Interface (for measuring Output ripple and noise).

Features	Benefits
• Stable high speed current control; High Slew Rate (up to 30A/us)	• Easy model choice (low/high voltage at 300W or 1kW)
• Seven load modes (CR, CC, CP, CV, EXT, Short, CV+Climit)	• Similar front panel/rear panel operation (300W/1kW)
• Four operating modes (Normal, Dynamic-Time, Dynamic-Freq, Sequence, Sweep)	• Flexibility in load mode and operating mode conditions
• Parallel Operation (up to ten units)	• Front or rear panel power connections available
• Built-In Interfaces: 3.5" Front Panel LCD display, USB (2.0), EXT-IN	• Simple parallel capability (up to 10kW)
• Digital Interfaces (optional): IEEE (488.1) w/ DIDO (for PLC interfacing)	• Easy physical impementation (bench-top or rack-mount)
• Ripple Measurement Interface (optional)	• Built-In Safety/EMC/RoHS compliance
• Compliant to EN61010-1 / CE Mark / 2Yr Warranty	

300W/1kW Programmable DC Electronic Load (Single Input in 3U Half-Rack/Full-Rack Profile)

Model Number	Load Voltage Rating (V)	Load Current Rating (A)	Load Power Rating (W)	Slew Rate (mA/us or A/us)	Voltage Measurement Range (V)	Current Measurement Range (A)
SFL 120-60-300	120	60	300	5mA/us to 20A/us	0-20 / 0-120	0-0.6 / 0-6 / 0-60
SFL 500-12-300	500	12	300	0.25mA/us to 1A/us	0-85 / 0 - 500	0-0.12 / 0-1.2 / 0-12
SFL 120-180-1K	120	180	1000	7.5mA/us to 30A/us	0-20 / 0-120	0-1.8 / 0-18 / 0-180
SFL 500-36-1K	500	36	1000	0.75mA/us to 3A/us	0-85 / 0 - 500	0-0.36 / 0-3.6 / 0-36

SFL	120	-	60	-	300	-	IEEE	-	R
	Rated voltage: 120, 500				Rated power: 300, 1K		IEMD: IEEE Interface		R: Ripple Measurement Interface
Product Series: SFL (3U Half-Rack/Full-Rack 300W/1kW)									
			Rated current: 60, 180; 12, 36						

Examples: **SFL 120-60-300**, **SFL 500-36-1K-R**, **SFL 120-180-IEEE-R**, **SFL 500-12-300**