



SELECTION GUIDE Triple Output Power Supplies



Triple output models currently available								
Model	Regulation	Power	Main Outputs	Aux. Output	Display	Control	Remote Interfaces	Size in mm (Rack size)
EL302T	Linear	130 watts	2 x (0-30V/0-2A)	1.5-5V/2A*	4 x LED	Analog	-	260x160x195
PL303QMT	Linear	228 watts	0-6V/0-8A 2 x (0-30V/0-2A)	-	6 x LED	Smart Analog	-	315x130x295 (3/4 rack-3U)
PL303QMTP	Linear	228 watts	0-6V/0-8A 2 x (0-30V/0-2A)	-	6 x LED	Smart Analog	USB/RS232/LAN/(GPIB)	315x130x295 (3/4 rack 3U)
QL355T	Linear	228 watts	2 x (0-35V/0-5A#)	1-6V/3A*	4 x LED	Digital	-	282x171x300 (2/3 rack 4U)
QL355TP	Linear	228 watts	2 x (0-35V/0-5A#)	1-6V/3A*	4 x LED	Digital	USB/RS232/GPIB/LAN	282x171x300 (2/3 rack 4U)
QL564T	Linear	242 watts	2 x (0-56V/0-4A#)	1-6V/3A*	4 x LED	Digital	-	282x171x300 (2/3 rack 4U)
QL564TP	Linear	242 watts	2 x (0-56V/0-4A#)	1-6V/3A*	4 x LED	Digital	USB/RS232/GPIB/LAN	282x171x300 (2/3 rack 4U)
EX354T	Mixed-Mode	305 watts	2 x (0-35V/0-4A)	1.5-5V/5A	4 x LED	Analog	-	260x160x195
MX100T	Mixed-Mode	315 watts	3 x (0-35V/3A###)	-	Graphic LCD	Digital	-	210x130x380 (1/2 rack 3U)
MX100TP	Mixed-Mode	315 watts	3 x (0-35V/3A###)	-	Graphic LCD	Digital	USB/RS232/GPIB/LAN	210x130x380 (1/2 rack 3U)

Notes: Sizes are width x height x depth
 * On EL and QL models, only the main outputs are linear regulated, the auxiliary output uses a switch-mode down converter.
 # On QL models, the main outputs use range switching and quoted voltage and current are not available simultaneously.
 ### On MX models, each output uses range switching to offer current up to 6A or voltage up to 70V.
 (GPIB) - GPIB interface is optional on PL-P models but standard on QL-P and MX-P models.

A wide choice of formats and technologies

Triple output laboratory power supplies have become increasingly popular with users because they offer the ability to power complex circuitry from a single unit thus saving space and cost.

Aim-TTi offers a number of very different triple output models aimed at meeting the needs of the widest range of users.

Dual outputs plus auxiliary, or three full outputs

Precision laboratory power supplies have outputs which are fully variable over a wide range and can operate in both constant voltage or constant current modes. High setting accuracy is matched by excellent load regulation.

Often this high performance is not required for all parts of an application, and a lower performance output is sufficient for some purposes, particularly when powering logic circuits.

The EL-R, EX-R and QL series incorporate a third output which is described as an Auxiliary output. Although variable in voltage, this has a fixed current limit and can not operate in constant current mode.

Other users require the full precision features on all outputs. The PL and MX series meet this requirement by offering three full performance outputs with similar features on each.

Linear or Mixed-mode Regulation

EL-R, PL and QL series power supplies offer true linear regulation* which still offers the highest performance in terms of noise and dynamic response. (*excluding the auxiliary output on EL-R and QL series models).

EX-R and MX series power supplies use mixed-mode regulation which combines switch-mode pre-regulation with linear final regulation. This provides much higher power density with only a limited reduction in performance.

Rack mounting

EL-R and EX-R series power supplies are designed primarily for use on the bench. PL, QL and MX series are suitable for bench use or rack mounting and use rack-modular sizing.

Remote Interfaces

PL, QL and MX series power supplies are available in P versions which include USB, RS232, GPIB and LAN (LXI) interfaces.

Power and sense terminals are duplicated on the rear panel for rack-mount applications.

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Aim-TTi Selection Guide - triple output dc laboratory power supplies (continued)

EL-R Series

The EL-R series are linear regulated power supplies with traditional analog controls and large LED displays. Single, dual and triple output models are available.

All models have four digit meters, dc output switches and selectable remote sensing.

The **EL302RT** triple has two outputs of 0-30V at 0-2A and an auxiliary output variable from 1.5V to 5.0V at 2A.

A "push to set" function displays the auxiliary voltage on one of the digital meters.



PL Series

The PL series are ultra-compact linear regulated power supplies with advanced features. Single, dual and triple output models are available.

True analog controls include smart features such as digital locking and span control. The rack-modular sizing (1/4 rack width x 3U) provides up to 90 watts per output.



The **PL303QMT** triple has one output of 0-6V at 0-8A with 1mV and 1mA resolution. The other two outputs are each 0-30V at 0-3A with quad-mode switching providing tracking operation or true parallel to give 0-30V at 0-6A from a single output. All outputs are linear regulated.

P versions include USB, RS232 and LXI conformant LAN interfaces with optional GPIB.

QL Series

The QL series are very high performance linear regulated power supplies with range switching to provide higher currents at lower voltages. Single and triple output models are available.

High resolution metering of 1mV in up to 56 volts is matched by high setting accuracy and digital control.

The rack-modular sizing (1/3 rack width x 4U) provides up to 112 watts per output.

The **QL355T** triple has two outputs of 0-35V at 0-3A, or 0-15V at 0-5A and an auxiliary output variable from 1.0V to 6.0V at 3A. A "push to read" function displays the auxiliary voltage and current.

The **QL564T** is similar but has main outputs switchable as 0-56V at 0-2A or 0-25V at 0-4A.

P versions include USB, RS232, LXI conformant LAN and GPIB interfaces all as standard. All outputs, including the auxiliary are fully controllable.



EX-R Series

EX-R series power supplies have a similar format to the EL-R series but use mixed-mode regulation. Single, dual and triple output models are available.

All models have four digit meters, dc output switches and selectable remote sensing.

The **EX354RT** triple has two outputs of 0-35V at 0-4A and an auxiliary output variable from 1.5V to 5.0V at 5A.

A "push to set" function displays the auxiliary voltage on one of the digital meters.



MX Series

The MX series has been designed specifically for users who require multiple high performance outputs.

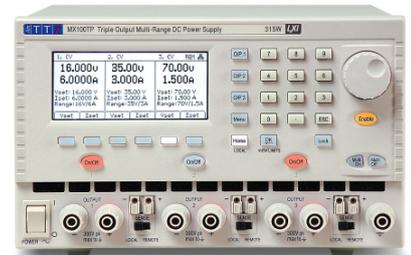
Mixed-mode regulation offers high power density and range switching provides flexible voltage/current combinations.

All outputs are displayed simultaneously using a large backlit graphic LCD, and control is digital.

The compact casing is rack modular (1/2 rack x 3U) with front ventilation for higher density.

The **MX100T** has three outputs each providing 0-35V at 0-3A, and with range switching to offer 0-16V at 0-6A or 0-70V at 0-1.5A.

P versions include USB, RS232, LXI conformant LAN and GPIB interfaces all as standard.



Why choose Aim-TTi ?

We have been designing and manufacturing laboratory power supplies for around 35 years. Hundreds of thousands of our products are in every day use across the world.

We concentrate on quality and performance. Our power supplies excel in terms of differential and common mode noise, precision and dynamic performance.

Features such as switchable remote sense terminals, individual and synchronous output switching, and flexible voltage/current combinations help distinguish our products from the crowd.

With power levels from 30 watts to 1200 watts, voltages up to 250V and currents up to 50A, we can match most requirements.

Full technical information and PDF brochures on these products and all Aim-TTi power supplies is available on our web site:
www.aimtti.com