

Linear Regulation

Power supplies using all linear regulation offer the lowest output noise, the best transient response and the most benign stability characteristics when driving complex loads.

The disadvantage is greater physical size and weight for a given power, together with higher heat output. Linear regulation is used on the EL-R, PL, PLH and QL series.

QL & QL-P series II

- ▶ High precision power supplies
- ▶ Single or triple outputs
- ▶ Linear regulation, 105W to 242W
- ▶ RS-232/GPIB/USB/LAN interfaces



The QL series II is a revised and improved version of the best selling QL series. It represents the state-of-the-art in a linear regulated laboratory PSU.

Very high precision is matched by very low output noise. The digital user interface combines speed with safety.

Despite the compact dimensions, power is in excess of 100 watts per output, and multiple ranges provide higher current at lower voltages.

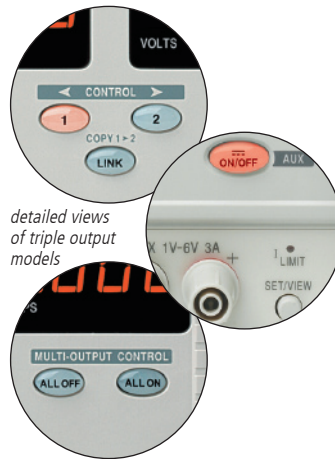
The series II adds extra models, a greatly improved auxiliary output on triple models, and a LAN interface with LXI support on P models.

NEW

The triple output models incorporate two single output units plus an auxiliary low voltage output.

The two main outputs can be put into a linked mode for simultaneous or tracking control.

A master on/off system enables all three outputs to be switched synchronously. ▼



The auxiliary output can be set and monitored at the touch of a button.

Voltage can be set to 0.01V resolution and current can be monitored.

On P versions remote setting and readback of the auxiliary output is provided.

Model	Outputs	Voltage / Current	Power	Interfaces
QL355	One	0 to 35V / 0 to 3A or 0 to 15V / 0 to 5A	105W	-
QL564	One	0 to 56V / 0 to 2A or 0 to 25V / 0 to 4A	112W	-
QL355T	Three	2 x (0 to 35V / 0 to 3A or 0 to 15V / 0 to 5A) plus 1 to 6V @ 3A	228W	-
QL564T	Three	2 x (0 to 56V / 0 to 2A or 0 to 25V / 0 to 4A) plus 1 to 6V @ 3A	242W	-
QL355P	One	0 to 35V / 0 to 3A or 0 to 15V / 0 to 5A	105W	RS232/USB/ LAN/GPIB
QL564P	One	0 to 56V / 0 to 2A or 0 to 25V / 0 to 4A	112W	RS232/USB/ LAN/GPIB
QL355TP	Three	2 x (0 to 35V / 0 to 3A or 0 to 15V / 0 to 5A) plus 2.7/3.3/5.0 @ 1A	215W	RS232/USB/ LAN/GPIB
QL564TP	Three	2 x (0 to 56V / 0 to 2A or 0 to 25V / 0 to 4A) plus 1 to 6V @ 3A	242W	RS232/USB/ LAN/GPIB

Brief specifications for main outputs:
Line & load regulation: <0.01%. Output noise: < 0.35mV rms.
Setting accuracies: voltage - 0.03% ± 5mV, current - 0.3% ± 0.5mA.
Sizes: singles - 141 x 172 x 300mm; triples - 282 x 172 x 300mm (WxHxD)

- ▶ Linear regulation with noise below 0.35mV rms
- ▶ 1mV setting resolution at all output voltages
- ▶ Setting by direct numeric entry or by spin wheel
- ▶ Multiple ranges for higher currents at lower voltages
- ▶ Multiple non-volatile setting memories with preview
- ▶ OVP and OCP trips with isolated alarm output
- ▶ Selectable remote sense for perfect regulation
- ▶ Linked-mode operation of main outputs (T models)
- ▶ Auxiliary output of 1V to 6V at 3A with voltage setting to 0.01V and current metering (T models)
- ▶ Compact modular width for bench or rack mounting
- ▶ GPIB, RS232, USB and LAN (LXI) interfaces (P versions)
- ▶ Front and rear mounted output terminals (P versions)



QL-P versions are fitted with rear power and sense terminals together with digital bus control interfaces.

These now include LXI compliant ethernet in addition to USB, RS232 and GPIB.

LXI
LAN Extensions for Instrumentation



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