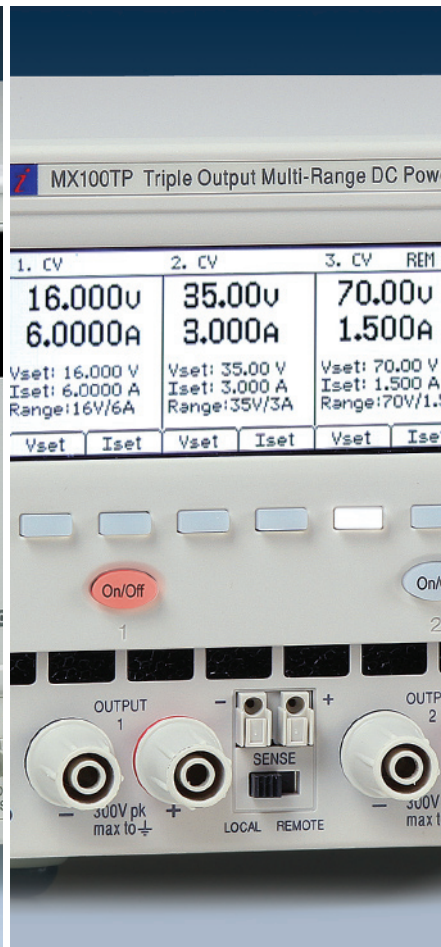




AIM & THURLBY THANDAR INSTRUMENTS

Laboratory DC Power Supplies

PRODUCT SUMMARY



- Laboratory Power Supplies - manual and remote control •
- Current up to 50A, voltage up to 250V •
- Power from 30 watts up to 1200 watts •
- Single, dual and triple output models •
- RS-232, GPIB, USB & LAN interfaces •

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Aim-TTi

Issue 6 - 2014

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The following pages are an extract from the 36 page general Aim-TTi Product Summary brochure which also includes laboratory power supplies, precision test instruments, and RF & EMC test equipment.



Measurably better value

About TTI, Aim and Aim-TTi

Excellence through experience

Thurlby Thandar Instruments Ltd. (TTi) is one of Europe's leading manufacturers of test and measurement instruments. Products have been sold under two brand names - TTI and Aim. In the future, the full product range will be branded Aim-TTi.

The company has wide experience in the design and manufacture of advanced test instruments and power supplies built up over more than thirty years.

TTi is based in the United Kingdom, and all products are built at the company's facility in Huntingdon, close to the famous university city of Cambridge.

Traceable quality systems



TTi is an ISO9001 registered company operating fully traceable quality systems for all processes from design through to final calibration.

Where to buy Aim-TTi products

Aim-TTi products are widely available from a network of distributors and agents in more than sixty countries across the world.

To find your local distributor, please visit our web site which provides full contact details.

The Aim-TTi Web sites

Detailed product information is provided on the Aim-TTi web site, together with support information and price lists.

The main international web site for Aim-TTi products is: **aimtti.com**
Customers within the UK can also use the web address: **aimtti.co.uk** which will take them to the web site of our UK sales division.

Customers in the USA should use the web address: **aimtti.us** which is the web site of our US sales division.

(Note that a leading www. is optional for all of our web addresses)

advanced electronic test instruments & power supplies

AIM & THURLBY THANDAR INSTRUMENTS

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Aim-TTi - the Home of Test and Measurement
Electronic Test Instruments and Power Supplies produced by TTI - Thurlby Thandar Instruments

Welcome to www.tti-test.com this is our international site

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Aim-TTi designs and manufactures advanced electronic test and measurement equipment. Our products are available throughout the world.

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NEW & FEATURED PRODUCTS

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A 3 year warranty is now free for all new Aim-TTi products.

Laboratory Power Supplies
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TTi Ltd

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Laboratory DC Power Supplies

A technology leader

Aim-TTI is one of the world's major producers of laboratory power supplies (PSUs).

It has been a major technology innovator in PSUs since 1979 and offers products ranging from 30 watts up to 1200 watts.

Hundreds of thousands of Aim-TTI power supplies are in everyday use around the world.

Power technologies

Aim-TTI laboratory power supplies use both linear and switch-mode technologies in order to optimise performance and value for money.

Linear regulation

Pure linear regulation still provides the lowest output noise and best transient response. The disadvantage is greater physical size and weight for a given power, together with higher heat output.

Mixed-mode regulation

For higher power levels, Aim-TTI have developed a technology that uses switch-mode pre-regulation and linear final regulation. This technique combines exceptional efficiency with noise levels that are close to that of pure linears.

PowerFlex & PowerFlex+ regulation

The Aim-TTI PowerFlex system uses a modified form of mixed-mode regulation to provide higher levels of current when the voltage is set to lower values.

PowerFlex+ uses a multi-phase conversion technique to eliminate the need for a linear final stage and offers an even wider range of voltage/current combinations.

Measurement and control

Digital Metering

All Aim-TTI power supplies incorporate separate digital meters for voltage and current.

On most models these are 4 digit scale length with fixed resolution (e.g. 0.00V to 56.00V). Fixed resolution avoids the misinterpretation of readings that can occur with autoranging 3 or 3½ digit meters where the decimal point position moves as the reading changes.

QL and QPX models provide 5 digit meters for voltages to give still higher precision and resolution.

QL and PL models also include a low current range which provides 0.1mA resolution (0.01mA on PL-H).

Remote Sense

Most Aim-TTI power supplies incorporate remote sense terminals that can be enabled/disabled at the flick of a switch. Remote sensing is essential to maintaining precise regulation at the load and true metering of the load voltage. Many other power supplies omit remote sense, but quote regulation figures that could never be achieved in a practice.

N.B. A 2 meter length of a 24/0.2 wire pair has a resistance of around 0.1 Ω . For a 5V load drawing 3A the metering error would be 0.3V and the effective full current load regulation would be around 6%, against a quoted figure of perhaps 0.01% for the power supply itself.

Output On/Off Switches

All Aim-TTI power supplies incorporate output on/off switches for the main outputs. This enables voltage and current settings to be viewed before the load is connected and allows multiple outputs to be controlled individually.

Many other power supplies omit this essential feature.

Analog or Digital Controls

Aim-TTI power supplies offer a choice of true analog controls or digital controls (numeric keyboard and/or spin-wheel).

The PL and CPX Series combines true analog controls with advanced digital features such as S-Lock and V-Span.

The QL, QPX and MX series offer digital control and five digit metering with a resolution of 1mV.



Bus programmable models

As well as the large range of manually controlled power supplies, Aim-TTI also offers many bus programmable units incorporating varying combination of GPIB, RS-232, USB and LAN interfaces, as well as models with analog remote control.

LabView, LabWindows and IVI drivers are available for most power supplies.

Silent Cooling

Many Aim-TTI power supplies use convection cooling thus removing the need for a fan and providing silent operation.

Other models incorporate a fan to assist cooling, but use smart control techniques to minimise noise.

Rack mounting

Many Aim-TTI PSU series, both bus programmable and manual, have a rack-modular casing size.

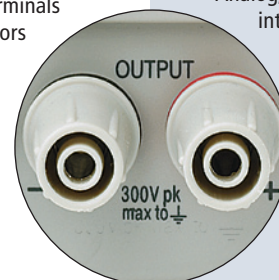
Rack mounts are available for the PL, QL, TSX, MX, CPX and QPX series.

Safety binding-post terminals

In response to changing customer requirements, Aim-TTI has introduced a new terminal design to most of the power supply range.

The new terminals accept a 4mm safety plug with rigid insulating sleeve, a requirement specified by an increasing number of laboratories for safety reasons.

However, unlike the usual 4mm safety sockets, the new Aim-TTI terminals can also accept fork connectors or bare wires, giving maximum flexibility.



Model ranges

EL-R series - page 2

Compact linear regulated power supply series with analog controls. Single, dual and triple outputs. 30 to 130 watts
RS-232/USB controlled models (EL302P).

PLH & PLH-P series - page 2

Higher voltage versions of the PL and PL-P series offering output voltages up to 250V. Single output, 90 watts.
Models with RS-232, USB, and LAN (LXI) and optional GPIB (PLH-P).

PL & PL-P series - page 3

Advanced linear regulated power supply series with analog controls combined with digital functions. Ultra compact. Single, dual and triple outputs. 48 to 228 watts.
Models with RS-232, USB, and LAN (LXI) and optional GPIB (PL-P).

QL & QL-P series - page 4

High precision digitally controlled linear regulated power supply series with advanced features. Single and triple outputs. 105 to 242 watts.
Models with RS-232, USB, LAN (LXI) and GPIB (QL-P).

EX-R series - page 5

Compact mixed-mode regulated power supply series with analog controls. Single, dual and triple outputs. 175 to 420 watts
RS-232/USB controlled models (EX355P).

TSX & TSX-P series - page 6

High performance mixed-mode regulated single output power supply series with analog or digital controls. 360 watts.
RS-232 and GPIB controlled models (TSX-P).

MX100T & MX100TP - page 7

New compact triple output power supplies with three full-performance outputs. Range switching gives up to 6A or 70V. 315 watts.
Model with RS-232, USB, GPIB & LAN (LXI) interfaces (MX100TP).

CPX & CPX-P series - page 8

Compact 'PowerFlex' regulated series, single and dual output with analog controls. 360 to 840 watts.
Models with RS-232, USB, GPIB & LAN (LXI) interfaces (CPX-P).

QPX & QPX-P series - pages 9 & 10

High power PowerFlex and PowerFlex+ regulated units, digital controls. Single and dual outputs, 750 to 1200 watts.
Analog, RS-232, USB, GPIB & LAN (LXI) interfaces (QPX-P).

Selection chart - page 11

Lists all power supply models giving a summary of voltage, current, power and major features.

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.

EL-R series

- ▶ Linear bench power supplies
- ▶ Single, dual or triple outputs
- ▶ 30W to 130W power range
- ▶ Switched remote sense terminals
- ▶ RS-232 interface model available

Dual output and triple output models are available using a similar casing style.

The EL302RT triple (illustrated) has a variable voltage auxiliary output which can be set using the digital displays. ▼



The EL-R series is the ideal solution for users requiring a good quality manual control, linear regulated bench power supply of low to medium power.

The series offers dual displays, high resolution control and metering, remote sensing, dc output switches and silent fan-free operation.

For those requiring a basic bus controllable power supply, versions with an RS-232 interface (EL302P) or a USB interface (EL302P-USB) are available. ▶



Model	Outputs	Voltage / Current	Power	Interfaces
EL301R	One	0 to 30V / 0 to 1A	30W	-
EL183R	One	0 to 18V / 0 to 3.3A	60W	-
EL302R	One	0 to 30V / 0 to 2A	60W	-
EL302P	One	0 to 30V / 0 to 2A	60W	RS232
EL302P-USB	One	0 to 30V / 0 to 2A	60W	USB
EL561R	One	0 to 56V / 0 to 1.1A	60W	-
EL155R	One	0 to 15V / 0 to 5A	75W	-
EL303R	One	0 to 30V / 0 to 3A	90W	-
EL302RD	Two	2 x (0 to 30V / 0 to 2A)	120W	-
EL302RT	Three	2 x (0 to 30V / 0 to 2A) plus 1.5 to 5V @ 2A	130W	-

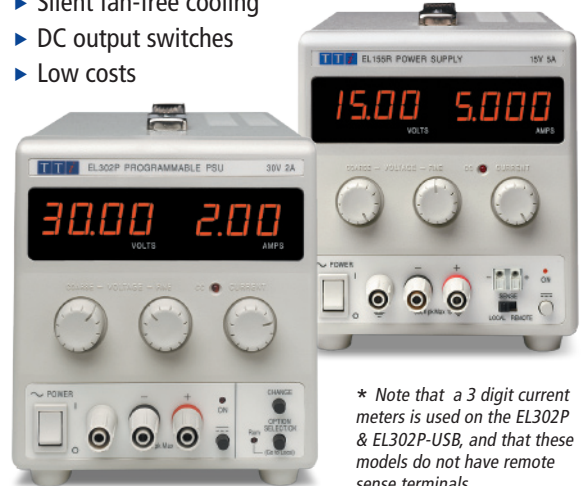
Brief specifications for main outputs:

Line & load regulation: <0.01%. Output noise: < 1mV rms.

Meter accuracies: voltage - 0.3% ± 3digits, current - 0.5% ± 3digits.

Sizes: singles - 140 x 160 x 295mm; dual/triple - 260 x 160 x 295mm (WxHxD)

- ▶ Linear regulation provides low noise
- ▶ 4 digit voltage and current meters on each output *
- ▶ Constant voltage or constant current operation
- ▶ Variable auxiliary output (1.5-5V@2A) on triple model
- ▶ Silent fan-free cooling
- ▶ DC output switches
- ▶ Low costs



* Note that a 3 digit current meters is used on the EL302P & EL302P-USB, and that these models do not have remote sense terminals.

PLH & PLH-P series

- ▶ High voltage versions of New PL
- ▶ Manual or bus programmable
- ▶ 90W power at 120V or 250V
- ▶ RS-232, USB, LAN or GPIB



The PLH series has been developed from the PL series (see next page) and retains all of its advanced features at output voltages of 120V or 250V.

Linear regulation offers the highest possible performance, and the compact quarter-rack width design provides an impressive 90 watts of power. A low current range provides 0.01mA resolution.

PLH-P series units have the same comprehensive set of interfaces as the PL-P, but with electrical isolation of the analog inputs.

Model	Outputs	Voltage / Current	Power	Interfaces
PLH120	One	0 to 120V / 0 to 0.75A	90W	-
PLH250	One	0 to 250V / 0 to 0.375A	94W	-
PLH120-P	One	0 to 120V / 0 to 0.75A	90W	RS232/USB/LAN
PLH250-P	One	0 to 250V / 0 to 0.375A	94W	RS232/USB/LAN

Brief specifications for main outputs:

Line & load regulation: <0.01%. Output noise: < 2mV rms.

Meter accuracies: voltage - 0.1% ± 1digit, current - 0.3% ± 3 digits.

Size: PLH - 105 x 130 x 290mm; PLH-P - 105 x 130 x 315mm



Model	Outputs	Voltage / Current	Power	Interfaces
PL068	One	0 to 6V / 0 to 8A	48W	
PL155	One	0 to 15V / 0 to 5A	75W	-
PL303	One	0 to 30V / 0 to 3A	90W	-
PL601	One	0 to 60V / 0 to 1.5A	90W	-
PL303QMD	Two	2 x (0 to 30V / 0 to 3A)	180W	-
PL303QMT	Three	2 x (0 to 30V / 0 to 3A) + 0 to 6V / 0 to 8A	228W	-
PL068P	One	0 to 6V / 0 to 8A	48W	RS232/USB/LAN
PL155P	One	0 to 15V / 0 to 5A	75W	RS232/USB/LAN
PL303P	One	0 to 30V / 0 to 3A	90W	RS232/USB/LAN
PL601P	One	0 to 60V / 0 to 1.5A	90W	RS232/USB/LAN
PL303QMDP	Two	2 x (0 to 30V / 0 to 3A)	180W	RS232/USB/LAN
PL303QMTP	Three	2 x (0 to 30V / 0 to 3A) + 0 to 6V / 0 to 8A	228W	RS232/USB/LAN

Brief specifications for main outputs:

Line & load regulation: <math><0.01\%</math>. Output noise: <math><0.4\text{mV rms}</math>.

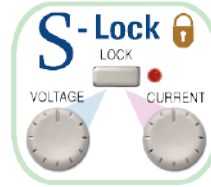
Meter accuracies: voltage - 0.1% \pm 1digit, current - 0.3% \pm 3 digits.

Sizes: singles - 105 x 130 x 290/315mm; dual - 210 x 130 x 290mm
triple - 315 x 130 x 290mm (WxHxD)

- ▶ Linear regulation provides ultra-low noise
- ▶ Highly compact (1/4 rack 3U) with small bench footprint
- ▶ True analog controls with advanced digital features
- ▶ Settings can be locked at the touch of a button
- ▶ 4 digit voltage and current meters on each output
- ▶ Low current range with 0.1mA resolution
- ▶ Constant voltage or constant current operation
- ▶ Independent, tracking or true parallel modes (QMD & QMT)
- ▶ High current (8A), high precision (1mV resolution) output on PL303QMT
- ▶ Front and rear power and sense terminals (PL-P models)
- ▶ Analog remote control (PL-P single output models)
- ▶ RS-232, USB and LXI compliant LAN interfaces (PL-P models) GPIB optional

The New PL series represents the successor to best-selling PL series which became an "industry standard".

This ultra-compact linear regulated design retains the traditional analog controls of the original PL but adds important digital features.



When working with any piece of equipment, engineers tend to require a voltage source variable over only a narrow range.

That's where the V-Span function comes in. It allows the user to redefine the end-stop values of the voltage control to create a specific voltage range.

For example - An engineer is working on a circuit that will operate from four NiMH cells. They use V-Span to set a V_{max} of 5.8 volts (to prevent over-voltage damage) and a V_{min} of 3.6 volts (to ensure that the circuit doesn't reset).

They now have a power supply which provides high-resolution analog control over the exact voltage range they need.

The PL-P series offers a comprehensive set of digital interfaces including RS232, USB and LAN (Ethernet) as standard, with GPIB optional.

The LAN interface is compliant with LXI-C. LXI (LAN eXtensions for Instrumentation) is the next-generation, modular architecture standard for automated test systems, and is expected to become the successor to GPIB in many systems.

PL & PL-P series

- ▶ High performance power supplies
- ▶ Single, dual and triple outputs
- ▶ Linear regulation, 48W to 228W
- ▶ Manual or bus programmable
- ▶ RS-232, USB, LAN or GPIB



The PL series is the solution for users requiring an advanced linear regulated precision bench power supply that retains conventional analog controls.

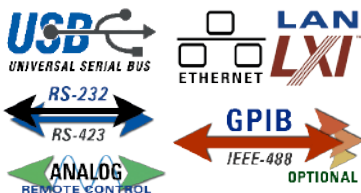
Its ultra-compact design uses minimal space on the bench or in the rack.

The PL-P series offers the same manual control features but adds full remote control using analog, RS232, USB and LAN interfaces, the latter conforming with LXI.



For more information concerning LXI visit:

www.aimtti.com/go/lxi



New triple output and high current single models



NEW

The New PL303QMT offers three full-performance linearly regulated outputs in a compact format.

Unlike many triple output PSUs, the third output has fully variable voltage and current with high resolution and selectable remote sense.

Voltage is variable from 0V to 6V with 1mV resolution, and current is fully variable up to 8A with 1mA or 0.1mA resolution.

All of the normal facilities including S-Lock and V-Span are included.

This high current module is also available as a single output power supply for low voltage but high current applications.

QL & QL-P series II

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

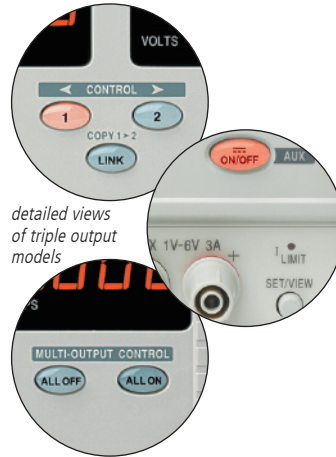
The series II adds extra models, a greatly improved auxiliary output on triple models, and a LAN interface with LXI support on P models.

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 - 0.2% ± 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.



All-linear regulation becomes impractical at higher power levels, so Aim-TTI have developed a technology that combines HF switch-mode pre-regulation with linear final regulation.

This technique combines exceptional efficiency with noise levels that are close to that of pure linears. Mixed-mode regulation is used in the EX-R, MX and TSX series.

Mixed-mode Regulation

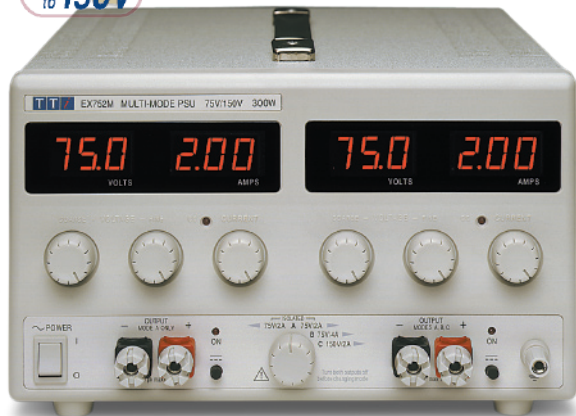
Model	Outputs	Voltage / Current	Power	Interfaces
EX355R	One	0 to 35V / 0 to 5A	175W	-
EX355P	One	0 to 35V / 0 to 5A	175W	RS232
EX355P-USB	One	0 to 35V / 0 to 5A	175W	USB
EX1810R	One	0 to 18V / 0 to 10A	180W	-
EX2020R	One	0 to 20V / 0 to 20A	400W	-
EX4210R	One	0 to 42V / 0 to 10A	420W	-
EX354RD	Two	2 x (0 to 35V / 0 to 4A)	280W	-
EX354RT	Three	2 x (0 to 35V / 0 to 4A) plus 1.5 to 5.0V @ 5A	305W	-
EX752M	Two	2 x (0 to 75V / 0 to 2A) or 0 to 75V / 0 to 4A or 0 to 150V / 0 to 2A	300W	-

Brief specifications for main outputs:
 Line & load regulation: <0.01%. Output noise: < 2mV rms.
 Meter accuracies: voltage - 0.3% ± 3 digits, current - 0.5% ± 3 digits.
 Sizes: singles - 140 x 160 x 295mm; dual/triple - 260 x 160 x 295mm (WxHxD)

- ▶ Mixed-mode regulation with linear output stage
- ▶ 4 digit voltage and current meters on each output *
- ▶ Constant voltage or constant current operation
- ▶ Variable auxiliary output (1.5-5V@5A) on triple model
- ▶ Switched remote sensing (not EX355P or EX752M)
- ▶ Silent fan-free cooling **
- ▶ DC output switches

* Note that 3 digit current meters are used on the EX355P and EX752M and that voltmeter resolution on the EX752M is 0.1V.

** Note that the EX2020R and EX4210R use fan assisted cooling.



The EX series is the value-for-money PSU for users who require higher power levels. Mixed-mode regulation gives excellent performance combined with compact size and low weight.

Dual output and triple output models are available in a similar casing style.

The EX354RT triple (illustrated) has a variable voltage auxiliary output which can be set using the digital displays. ▼



For those requiring a basic bus controllable power supply, versions with an RS-232 interface (EL302P) or a USB interface (EL302P-USB) are available. ◀

* Note that a 3 digit current meters is used on the EL302P & EL302P-USB, and that these models do not have remote sense terminals.

The EX752M is a dual output 300 watt PSU with Multi-Mode capability. This enables it to operate as a dual power supply with two independent and isolated outputs, or as a single power supply of double the power. ◀

As a dual, each output provides 0 to 75V at 0 to 2A (mode A). As a single, the output can be selected as either 0 to 75V at 0 to 4A (mode B) or 0 to 150V at 0 to 2A (mode C). In single modes, the unused half of the unit becomes completely inoperative and its displays are blanked.

EX-R series

- ▶ Compact bench power supplies
- ▶ Single, dual or triple outputs
- ▶ Mixed-mode regulation
- ▶ Power from 175W to 420W
- ▶ Switched remote sense terminals
- ▶ RS-232 interface model available



TSX & TSX-P series

- ▶ Mixed-mode regulation
- ▶ Very high performance
- ▶ Single output, 350W/360W
- ▶ Front and rear terminals

The TSX series is housed in a 3U half-rack size case suitable for bench use or rack mounting.

It uses silent convection cooling for the quietest possible working environment.



The TSX series offers exceptionally good noise and transient performance.

The switch-mode pre-regulation uses ultra low capacitance components to minimise common mode noise, while the linear final regulator minimises differential output noise.



Model	Outputs	Voltage / Current	Power	Interfaces
TSX1820	One	0 to 18V / 0 to 20A	360W	-
TSX3510	One	0 to 35V / 0 to 10A	350W	-
TSX1820P	One	0 to 18V / 0 to 20A	360W	RS232/GPIB
TSX3510P	One	0 to 35V / 0 to 10A	350W	RS232/GPIB

Brief specifications:
 Line and load regulation: <0.01%. Output noise: < 1mV rms.
 Meter accuracies: voltage - 0.2% ± 1digit, current - 0.5% ± 1digit.
 Size: 210 x 130 x 350mm (WxHxD). Weight: 5.0kg

- ▶ Choice of 35V/10A and 18V/20A models
- ▶ Very low noise, excellent transient response
- ▶ Constant voltage or constant current operation
- ▶ Comprehensive protection including OVP trip
- ▶ High setting resolution, remote sense terminals
- ▶ Bench or rack mounting, front and rear terminals
- ▶ Compact half-rack 3U case size
- ▶ Digital control with keyboard/spin-wheel (TSX-P)
- ▶ Rotary and delta control of voltage/current (TSX-P)
- ▶ Third display for parameter indication (TSX-P)
- ▶ Storage of up to twenty five settings (TSX-P)
- ▶ GPIB (IEEE-488) and RS232 interfaces (TSX-P)



Local operation convenience features of the TSX-P series include an auxiliary display for displaying other data such as increment values, OVP level, or watts.

The display is also used to preview entry from the keyboard in order to prevent errors.

Twenty five non-volatile memories are provided for storing frequently used settings. Each store holds a voltage, current and OVP setting.



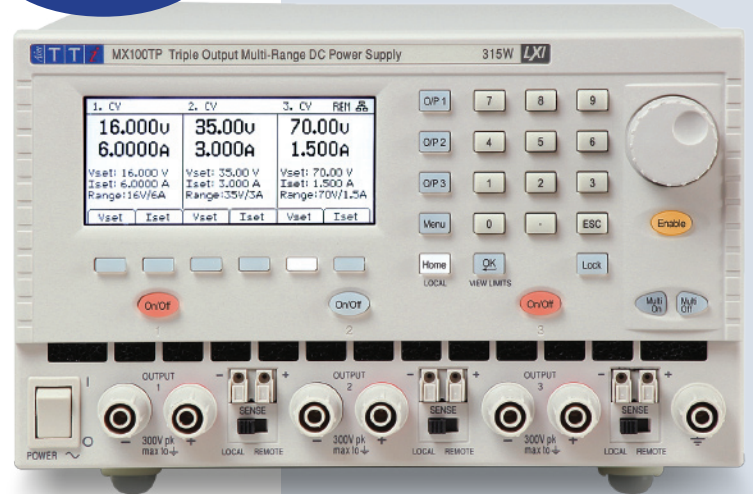
Model	Outputs	Voltage / Current	Power	Interfaces
MX100T	Three	See Range Combinations	315W	-
MX100TP	Three	See Range Combinations	315W	RS232, USB LAN, GPIB

Brief specifications:
 Line regulation: <0.01%. Load regulation: <0.01%. Output noise: < 3mV rms.
 Setting accuracy: voltage - 0.05% ± 3mV, current - 0.3% ± 3mA.
 Size: 210 x 130 x 380mm (WxHxD); Weight: 4.6kg

- ▶ Three high performance outputs of 105 watts each 3 x (0 to 35V at 0 to 3A)
- ▶ Total power of 315 watts in a highly compact package
- ▶ Range switching gives up to 70 volts and up to 6 amps
- ▶ Twelve range combinations for maximum flexibility
- ▶ Up to 210 watts from a single output
- ▶ Low output noise and ripple via linear final regulation
- ▶ High setting resolution of 1mV and 0.1mA (output 1)
- ▶ Selectable current meter averaging
- ▶ Variable OVP and OCP trips on all outputs
- ▶ Selectable voltage tracking on outputs 2 and 3
- ▶ Switchable remote sense on all outputs
- ▶ 200 setting memories for individual or multiple outputs
- ▶ Graphic LCD provides simultaneous output metering
- ▶ Numeric or spin-wheel control of all parameters
- ▶ Individual or combined output on/off control with programmable delay sequencing.
- ▶ Compact 3U half-rack case for bench or rack mounting
- ▶ GPIB, RS-232, USB and LAN (LXI) interfaces (MX100TP)
- ▶ Front and rear terminals (MX100TP)

The MX series are compact multi-output power supplies using mixed-mode regulation with the added flexibility of range switching.

NEW



Range Combinations			
Output 1	Output 2	Output 3	
35V/3A	35V/3A	35V/3A	
35V/3A	16V/6A	35V/3A	
35V/3A	35V/3A	70V/1.5A	
35V/3A	16V/6A	70V/1.5A	
35V/3A	35V/6A	--	
35V/3A	--	70V/3A	
16V/6A	35V/3A	35V/3A	
16V/6A	16V/6A	35V/3A	
16V/6A	35V/3A	70V/1.5A	
16V/6A	16V/6A	70V/1.5A	
16V/6A	35V/6A	--	
16V/6A	--	70V/3A	

The MX100T differs from most other triple output power supplies in having three outputs of equal power, each with the ability to provide 35V at 3A.

Each output features simultaneous high resolution metering, switchable remote sense, and an individual output switch.

Range switching and power control

To increase its ability to match the widest range of applications, each output has more than one range.

Outputs one and two can provide 16V/6A as an alternative to 35V/3A, while output three can provide 70V/1.5A.

When higher power is required, outputs two and three can be combined internally to provide up to 210 watts as either 35V/6A or 70V/3A from a single output.

MX & MX-P series

- ▶ Three full-performance outputs
- ▶ 315 watts total power
- ▶ Range switching, 70V or 6A max.
- ▶ High resolution graphic LCD
- ▶ RS-232, USB, LAN and GPIB



LAN Extensions for Instrumentation

PowerFlex Regulation

The Aim-TTI PowerFlex system uses a modified form of mixed-mode regulation to provide higher levels of current when the voltage is set to lower values. PowerFlex+ uses a multi-phase conversion system and offers a wider range of voltage/current combinations.

PowerFlex regulation is used on the CPX series and the QPX1200S. PowerFlex+ regulation is used on the QPX750S and QPX600D.

CPX & CPX-P series

- ▶ PowerFlex regulation
- ▶ Higher current at lower voltage
- ▶ Single or dual outputs
- ▶ Up to 840 watts total power
- ▶ USB, RS232, GPIB & LAN (LXI) interfaces (P models)

CPX series models share a highly compact case style - 3U quarter rack (single) or half rack (dual).



Model	Outputs	Voltage / Current	Power	Interfaces
CPX200D	Two	2 x (0 to 60V / 0 to 10A*)	360W	-
CPX200DP	Two	2 x (0 to 60V / 0 to 10A*)	360W	RS232, USB LAN, GPIB
CPX400S	One	0 to 60V / 0 to 20A*	420W	-
CPX400SA	One	0 to 60V / 0 to 20A*	420W	Isolated Analog
CPX400SP	One	0 to 60V / 0 to 20A*	420W	RS232, USB LAN, GPIB
CPX400D	Two	2 x (0 to 60V / 0 to 20A*)	840W	-
CPX400DP	Two	2 x (0 to 60V / 0 to 20A*)	840W	RS232, USB LAN, GPIB

Brief specifications:
 Line regulation: <0.01%. Load regulation: <0.01%. Output noise: < 3mV rms.
 Meter accuracies: voltage - 0.1% ± 2 digits, current - 0.3% ± 2 digits.
 Size: 210 x 130 x 350mm (WxHxD)
 * Note: maximum current is not available with maximum voltage see PowerFlex power envelope curves.

- ▶ PowerFlex design gives variable voltage and current combinations within a maximum power range
- ▶ Isolated outputs can be wired in series or parallel
- ▶ Constant voltage or constant current operation
- ▶ Settings Locking (S-Lock)
- ▶ PowerFlex or fixed-range operation
- ▶ Variable OVP trips
- ▶ Selectable remote sense terminals
- ▶ Compact quarter or half rack 3U case size
- ▶ Isolated analog remote control (CPX400SA only)
- ▶ RS232, USB, GPIB & LXI compliant LAN (P models only)

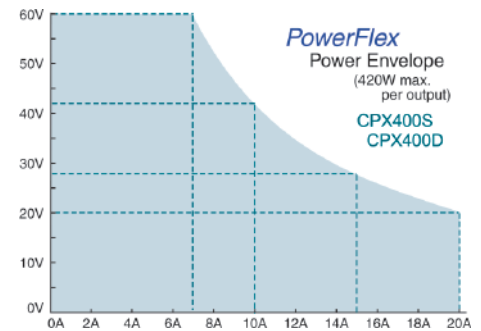
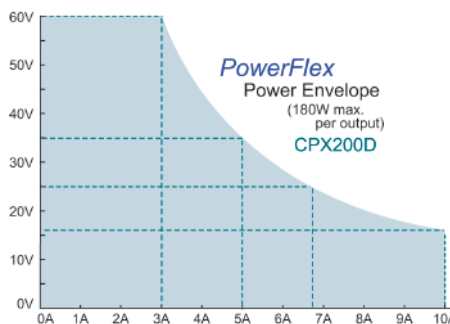
The CPX series is a different type of laboratory power supply designed to meet the need for flexibility in the choice of voltage and current.

Today's engineers often need a wide voltage range capability and a high current capability. Normally, however, the maximum voltage and maximum current are not required simultaneously.

A conventional PSU has a fixed current limit giving a power capability that reduces directly with the output voltage.

The Aim-TTI PowerFlex design of the CPX series enables higher currents to be generated at lower voltages within an overall power limit envelope.

P models are fitted with USB, RS-232, GPIB and LAN interfaces as standard, the latter conforming to the LXI standard (LAN eXtensions for Instrumentation).



The CPX400S is a single output version of the best-selling CPX400D with a full 420W of power from a 1/4 rack width casing.

The CPX400SP adds USB, RS232, GPIB and LAN interfaces with LXI support.

A version with isolated analog remote control is also available.



New Replacement Models: the CPX200 dual output PSU, widely used throughout the world, has now been replaced with the CPX200D and CPX200DP models offering wider power range, enhanced facilities and remote control (DP).



Model	Outputs	Voltage / Current	Power	Interfaces
QPX1200S	One	0 to 60V / 0 to 50A*	1200W	Analog only
QPX1200SP	One	0 to 60V / 0 to 50A*	1200W	RS232/USB/LAN/GPIB

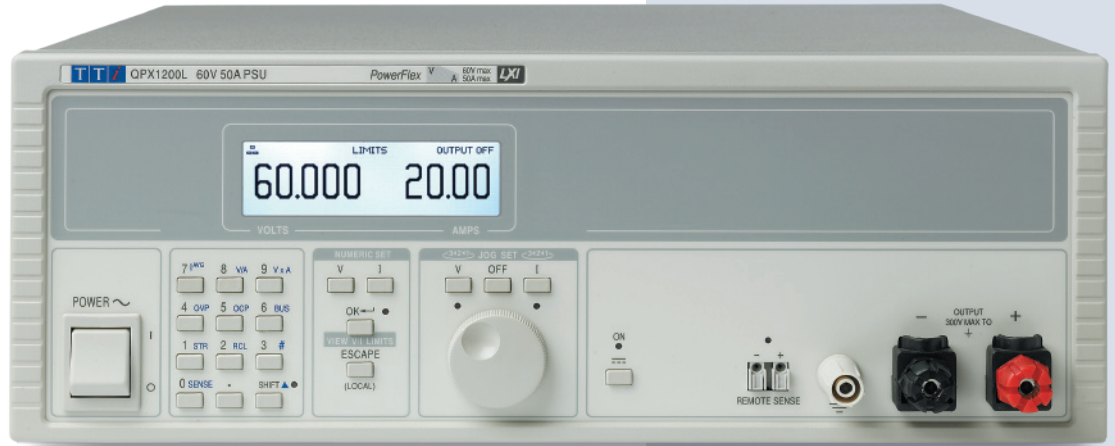
Brief specifications:
 Line & load regulation: <0.01%. Output noise: < 3mV rms.
 Setting accuracies: voltage - 0.1% ± 2mV, current - 0.3% ± 20mA.
 Size: 350 x 130 x 415mm (WxHxD)
 * Note: max. current is not available with max. voltage, see PowerFlex curve.

With a current capability of 20 amps at the maximum output of 60 volts, the PowerFlex design offers increasing output current with reducing output voltage.

Example voltage/current combinations include 60V/20A, 48V/25A, 37.5V/30A, 26V/40A, and 20V/50A.

The QPX1200S has only an analog remote control interface.

The QPX1200SP has analog, RS232 USB, GPIB and LAN interfaces. The latter conforms with the LXI standard

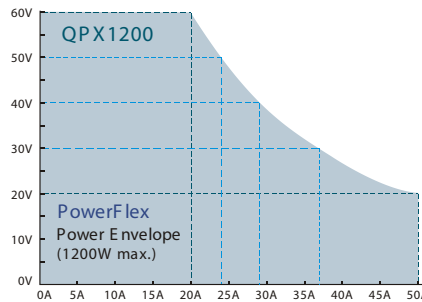


QPX1200S & SP

- ▶ 1200 watts PowerFlex/PowerFlex+
- ▶ Higher currents at lower voltages
- ▶ Up to 80 volts and up to 50 amps
- ▶ Analog, RS-232, USB, GPIB & LAN

QPX1200S & SP

- ▶ PowerFlex design gives variable voltage/current combinations within a power envelope
- ▶ Up to 60 volts and up to 50 amps
- ▶ Setting by direct numeric entry or by spin wheel
- ▶ High setting resolution of 1mV in up to 60 volts
- ▶ Very low noise of < 3mV rms at full power
- ▶ Bench or rack mounting, front and rear terminals
- ▶ Analog, RS232, USB GPIB & LAN interfaces (SP)



The QPX1200S & SP offer users a level of flexibility that cannot be achieved with conventional laboratory power supplies. They can therefore perform the task of many different power supplies.

These power supplies are suited to both bench-top and system applications with front and rear terminals and a wide range of interfaces.



Model	Outputs	Voltage / Current	Power	Interfaces
QPX750S	One	0 to 80V / 0 to 50A*	750W	Analog only
QPX750SP	One	0 to 80V / 0 to 50A*	750W	RS232/USB/LAN/GPIB

Brief specifications:
 Line & load regulation: <0.01%. Output noise: < 3mV rms.
 Setting accuracies: voltage - 0.1% ± 2mV, current - 0.3% ± 20mA.
 Size: 212 x 130 x 380mm WxHxD (half rack x 3U)
 * Note: max. current is not available with max. voltage, see PowerFlex+ curve.

The QPX750S offers unrivalled flexibility in voltage/current combinations.

The compact half rack design is suitable for bench or rack with full current terminals front and rear.

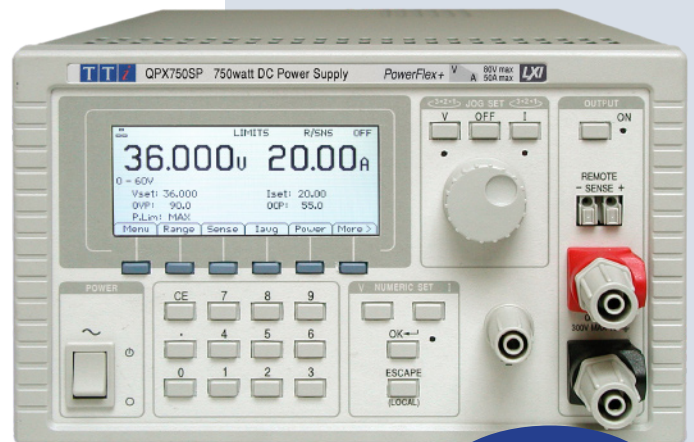
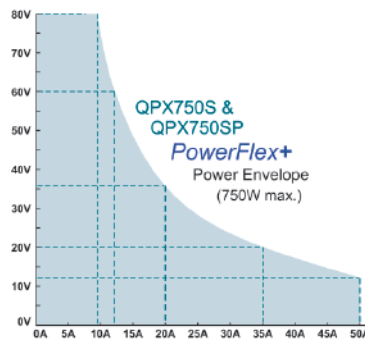
The graphic LCD shows all parameters simultaneously.

QPX750S & SP

- ▶ 750 watts PowerFlex+
- ▶ Higher currents at lower voltages
- ▶ Up to 80 volts and up to 50 amps
- ▶ Wide range of remote interfaces

QPX750S & SP

- ▶ PowerFlex+ gives ultra wide range of voltage/current combinations
- ▶ Up to 80 volts and up to 50 amps (750W max.)
- ▶ Low output noise and ripple
- ▶ High setting resolution of 1mV
- ▶ Large graphic LCD
- ▶ Smart functions built-in
- ▶ Analog, RS232, USB GPIB & LAN interfaces (SP)



Available mid 2014



QPX600D & DP

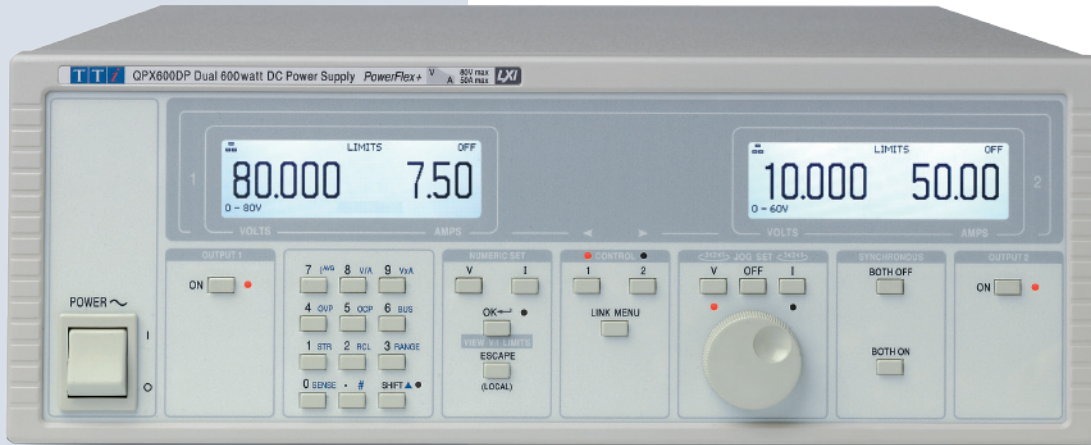
- ▶ 1200 watts PowerFlex+
- ▶ Dual 600 watt outputs
- ▶ Higher currents at lower voltages
- ▶ Up to 80 volts and up to 50 amps
- ▶ Smart tracking modes
- ▶ Wide range of remote interfaces

The QPX600D incorporates two isolated outputs of 600W each.

PowerFlex+ regulations provides up to 80V or 50A, and smart tracking enables the outputs to be combined with total voltage or current indicated on a single meter.

Model	Outputs	Voltage / Current	Power	Interfaces
QPX600D	Two	0 to 80V / 0 to 50A *	2 x 600W	Analog only
QPX600DP	Two	0 to 80V / 0 to 50A *	2 x 600W	RS232/USB/LAN/GPIB

Brief specifications:
 Line & load regulation: <0.01%. Output noise: < 3mV rms.
 Setting accuracies: voltage - 0.1% ± 2mV, current - 0.3% ± 20mA.
 Size: 350 x 130 x 415mm (WxDxH)
 * Note: max. current is not available with max. voltage, see PowerFlex curve.



The QPX600D & DP offer 1200 watts of maximum power, arranged as two isolated outputs of 600 watts each.

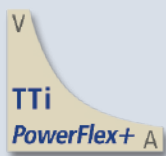
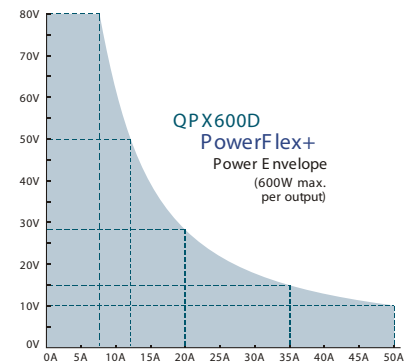
It uses the latest TTI regulation system, PowerFlex+, which offers a much wider flexing range of more than 6½:1.

The QPX600 can be operated as two entirely independent power supplies, each with its own display. Alternatively multiple tracking modes are available including ones intended for series and parallel operation which provide metering of total voltage or total current respectively.

These power supplies are suited to both bench-top and system applications and has a wide range of remote control interfaces.

QPX600D & DP

- ▶ Dual independent or tracking 600 watt outputs
- ▶ PowerFlex+ gives ultra wide range variable voltage/current combinations
- ▶ Up to 80 volts and up to 50 amps within each power envelope
- ▶ Isolated tracking of voltage and current
- ▶ Low output noise and ripple
- ▶ High setting resolution of 1mV
- ▶ Analog, RS232, USB GPIB & LAN interfaces (DP)



To learn more about LXI visit:
www.aimtti.com/go/lxi

Power Supply Selector

MANUAL CONTROL MODELS												
Model No	Type	Regulation	O/Ps	Main Output(s)	Aux. Output	Power	R.Sense	Fan	Controls	Meters	Size mm	Weight
EL301R	Precision	Linear	Single	0 - 30V / 0 - 1A		30W	Yes	No	Analog	4 digit LED	140x160x195	3.4kg
EL183R	Precision	Linear	Single	0 - 18V / 0 - 3.3A		60W	Yes	No	Analog	4 digit LED	140x160x195	4.4kg
EL302R	Precision	Linear	Single	0 - 30V / 0 - 2A		60W	Yes	No	Analog	4 digit LED	140x160x195	4.4kg
EL561R	Precision	Linear	Single	0 - 56V / 0 - 1.1A		60W	Yes	No	Analog	4 digit LED	140x160x195	4.4kg
EL155R	Precision	Linear	Single	0 - 15V / 0 - 5A		75W	Yes	No	Analog	4 digit LED	140x160x195	5.0kg
EL303R	Precision	Linear	Single	0 - 30V / 0 - 3A		90W	Yes	No	Analog	4 digit LED	140x160x195	5.0kg
EL302RD	Precision	Linear	Dual	0 - 30V / 0 - 2A		120W	Yes	No	Analog	4 digit LED	260x160x195	7.5kg
EL302RT	Precision	Linear	Triple	0 - 30V / 0 - 2A	1.5 - 5V @ 2A	130W	Yes	No	Analog	4 digit LED	260x160x195	7.5kg
EX1810R	Precision	Mixed Mode	Single	0 - 18V / 0 - 10A		180W	Yes	No	Analog	4 digit LED	140x160x195	3.0kg
EX355R	Precision	Mixed Mode	Single	0 - 35V / 0 - 5A		175W	Yes	No	Analog	4 digit LED	140x160x195	3.0kg
EX2020R	Precision	Mixed Mode	Single	0 - 20V / 0 - 20A		400W	Yes	Yes	Analog	4 digit LED	140x160x195	3.5kg
EX4210R	Precision	Mixed Mode	Single	0 - 42V / 0 - 10A		420W	Yes	Yes	Analog	4 digit LED	140x160x195	3.5kg
EX354RD	Precision	Mixed Mode	Dual	0 - 35V / 0 - 4A		280W	Yes	No	Analog	4 digit LED	260x160x195	4.3kg
EX354RT	Precision	Mixed Mode	Triple	0 - 35V / 0 - 4A	1.5 - 5V @ 5A	305W	Yes	No	Analog	4 digit LED	260x160x195	4.3kg
EX752M	Multi-Mode HV	Mixed Mode	Dual	0 - 75V / 0 - 2A		300W	No	No	Analog	3 digit LED*	260x160x195	4.4kg
PL068	Advanced	Linear	Single	0 - 6V / 0 - 8A		48W	Yes	LN	Smart Analog	4 digit LED	105x130x295	4.5kg
PL155	Advanced	Linear	Single	0 - 15V / 0 - 5A		75W	Yes	LN	Smart Analog	4 digit LED	105x130x295	4.5kg
PL303	Advanced	Linear	Single	0 - 30V / 0 - 3A		90W	Yes	LN	Smart Analog	4 digit LED	105x130x295	4.5kg
PL601	Advanced	Linear	Single	0 - 60V / 0 - 1.5A		90W	Yes	LN	Smart Analog	4 digit LED	105x130x295	4.5kg
PL303QMD	Advanced	Linear	Dual	0 - 30V / 0 - 3A		180W	Yes	LN	Smart Analog	4 digit LED	210x130x295	9.0kg
PL303QMT	Advanced	Linear	Triple	0 - 30V / 0 - 3A	0V - 6V/0A-8A	228W	Yes	LN	Smart Analog	4 digit LED	315x130x295	13.4kg
PLH120	Advanced HV	Linear	Single	0 - 120V / 0 - 0.75A		90W	Yes	LN	Smart Analog	4 digit LED	105x130x295	4.5kg
PLH250	Advanced HV	Linear	Single	0 - 250V / 0 - 0.375A		94W	Yes	LN	Smart Analog	4 digit LED	105x130x295	4.5kg
QL355	High Precision	Linear	Single	0 - 35V / 0 - 5A #		105W	Yes	Yes	Digital	5 digit LED	141x171x300	5.0kg
QL564	High Precision	Linear	Single	0 - 56V / 0 - 4A #		112W	Yes	Yes	Digital	5 digit LED	141x171x300	5.0kg
QL355T	High Precision	Linear	Triple	0 - 35V / 0 - 5A #	1V - 6V @ 3A	228W	Yes	Yes	Digital	5 digit LED	282x171x300	10.0kg
QL564T	High Precision	Linear	Triple	0 - 56V / 0 - 4A #	1V - 6V @ 3A	242W	Yes	Yes	Digital	5 digit LED	282x171x300	10.0kg
TSX1820	Precision	Mixed Mode	Single	0 - 18V / 0 - 20A		360W	Yes	No	Analog	4 digit LED	210x130x350	5.0kg
TSX3510	Precision	Mixed Mode	Single	0 - 35V / 0 - 10A		350W	Yes	No	Analog	4 digit LED	210x130x350	5.0kg
MX100T	Precision	Mixed Mode	Triple	0 - 35V / 0 - 6A #		315W	Yes	Yes	Digital	Graphic LCD	210x130x380	4.6kg
CPX200D	Precision	PowerFlex	Dual	0 - 60V / 0 - 10A †		360W	Yes	No	Smart Analog	4 digit LED	210x130x350	6.0kg
CPX400S	Precision	PowerFlex	Single	0 - 60V / 0 - 20A †		420W	Yes	Yes	Smart Analog	4 digit LED	107x130x390	4.3kg
CPX400D	Precision	PowerFlex	Dual	0 - 60V / 0 - 20A †		840W	Yes	Yes	Smart Analog	4 digit LED	210x130x350	7.5kg
QPX750S	High Precision	PowerFlex+	Single	0 - 80V / 0 - 50A †		750W	Yes	Yes	Digital	Graphic LCD	210x130x 415	7.6kg
QPX1200S	High Precision	PowerFlex	Single	0 - 60V / 0 - 50A †		1200W	Yes	Yes	Digital	Graphic LCD	350x130x 415	9.2kg
QPX600D	High Precision	PowerFlex+	Dual	0 - 80V / 0 - 50A †		1200W	Yes	Yes	Digital	Graphic LCD	350x130x 415	9.6kg
BUS PROGRAMMABLE MODELS (Manual and Remote Control)												
Model No	Interfaces	Regulation	O/Ps	Main Output(s)	Aux. Output	Power	R.Sense	Fan	Local Cntrl	Meters	Size mm	Weight
EL302P	RS-232	Linear	Single	0 - 30V / 0 - 2A		60W	No	No	Digital	4 digit LED	140x160x195	4.4kg
EL302P-USB	USB	Linear	Single	0 - 30V / 0 - 2A		60W	No	No	Digital	4 digit LED	140x160x195	4.4kg
EX355P	RS-232	Mixed Mode	Single	0 - 35V / 0 - 5A		175W	No	No	Digital	4 digit LED	140x160x195	3.0kg
EX355P-USB	USB	Mixed Mode	Single	0 - 35V / 0 - 5A		175W	No	No	Digital	4 digit LED	140x160x195	3.0kg
PL068-P*	RS-232/USB/LAN	Linear	Single	0 - 6V / 0 - 8A		48W	Yes	LN	Smart Analog	4 digit LED	105x130x295	4.7kg
PL155-P*	RS-232/USB/LAN	Linear	Single	0 - 15V / 0 - 5A		75W	Yes	LN	Smart Analog	4 digit LED	105x130x295	4.7kg
PL303-P*	RS-232/USB/LAN	Linear	Single	0 - 30V / 0 - 3A		90W	Yes	LN	Smart Analog	4 digit LED	105x130x295	4.7kg
PL601-P*	RS-232/USB/LAN	Linear	Single	0 - 60V / 0 - 1.5A		90W	Yes	LN	Smart Analog	4 digit LED	105x130x295	4.7kg
PL303QMD-P*	RS-232/USB/LAN	Linear	Dual	0 - 30V / 0 - 3A		180W	Yes	LN	Smart Analog	4 digit LED	210x130x295	9.2kg
PL303QMT-P*	RS-232/USB/LAN	Linear	Triple	0 - 30V / 0 - 3A	0V - 6V/0A-8A	228W	Yes	LN	Smart Analog	4 digit LED	315x130x295	13.5kg
PLH120-P*	RS-232/USB/LAN	Linear	Single	0 - 120V / 0 - 0.75A		90W	Yes	LN	Smart Analog	4 digit LED	105x130x295	4.5kg
PLH250-P*	RS-232/USB/LAN	Linear	Single	0 - 250V / 0 - 0.375A		94W	Yes	LN	Smart Analog	4 digit LED	105x130x295	4.5kg
QL355P	RS232/USB/LAN/GPIB	Linear	Single	0 - 35V / 0 - 5A #		105W	Yes	Yes	Digital	5 digit LED	141x171x300	5.0kg
QL564P	RS232/USB/LAN/GPIB	Linear	Single	0 - 56V / 0 - 4A #		112W	Yes	Yes	Digital	5 digit LED	141x171x300	5.0kg
QL355TP	RS232/USB/LAN/GPIB	Linear	Triple	0 - 35V / 0 - 5A #	1V - 6V @ 3A	228W	Yes	Yes	Digital	5 digit LED	282x171x300	10.0kg
QL564TP	RS232/USB/LAN/GPIB	Linear	Triple	0 - 56V / 0 - 4A #	1V - 6V @ 3A	242W	Yes	Yes	Digital	5 digit LED	282x171x300	10.0kg
TSX1820P	RS-232 & GPIB	Mixed Mode	Single	0 - 18V / 0 - 20A		360W	Yes	No	Digital	4 digit LED	210x130x350	5.5kg
TSX3510P	RS-232 & GPIB	Mixed Mode	Single	0 - 35V / 0 - 10A		350W	Yes	No	Digital	4 digit LED	210x130x350	5.5kg
MX100TP	RS232/USB/LAN/GPIB	Mixed Mode	Triple	0 - 35V / 0 - 6A #		315W	Yes	Yes	Digital	Graphic LCD	210x130x380	4.6kg
CPX200DP	RS232/USB/LAN/GPIB	PowerFlex	Dual	0 - 60V / 0 - 10A †		360W	Yes	Yes	Smart Analog	4 digit LED	210x130x350	6.0kg
CPX400SA	Isolated Analog	PowerFlex	Single	0 - 60V / 0 - 20A †		420W	Yes	Yes	Smart Analog	4 digit LED	107x130x390	4.3kg
CPX400SP	RS232/USB/LAN/GPIB	PowerFlex	Single	0 - 60V / 0 - 20A †		420W	Yes	Yes	Smart Analog	4 digit LED	107x130x390	4.3kg
CPX400DP	RS232/USB/LAN/GPIB	PowerFlex	Dual	0 - 60V / 0 - 20A †		840W	Yes	Yes	Smart Analog	4 digit LED	210x130x350	7.6kg
QPX750SP	RS232/USB/LAN/GPIB	PowerFlex+	Single	0 - 80V / 0 - 50A †		750W	Yes	Yes	Digital	Graphic LCD	210x130x 415	7.7kg
QPX1200SP	RS232/USB/LAN/GPIB	PowerFlex	Single	0 - 60V / 0 - 50A †		1200W	Yes	Yes	Digital	Graphic LCD	350x130x 415	9.2kg
QPX600DP	RS232/USB/LAN/GPIB	PowerFlex+	Dual	0 - 80V / 0 - 50A †		1200W	Yes	Yes	Digital	Graphic LCD	350x130x 415	9.6kg

* Bus programmable models marked with an asterisk are optionally available with a GPIB interface in addition to RS232, USB and LAN.

Indicates a multi-range model - maximum voltage and current are not available simultaneously.

† Indicates a PowerFlex model - maximum voltage and current are not available simultaneously.

for full power supply technical information:
www.aimtti.com/psu

LD300 dc load

- ▶ 300 watt dc electronic load
- ▶ Up to 80 volts or 80 amps
- ▶ CI, CR, CV and CP modes
- ▶ Built-in transient generator

Note: Full technical details are available on the web site.



The LD300 is an inexpensive electronic load which is suitable for testing and characterising a wide variety of dc power sources.

It can be used to investigate the behaviour of many different types of power source such as batteries, solar cells, fuel cells or wind generators, as well as electronic power supply units.

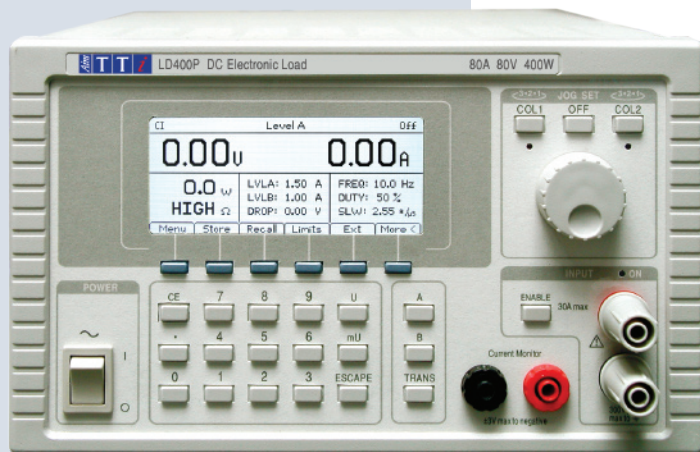
Its wide voltage/current range, multiple operating modes and built-in transient generator give it the versatility to offer test solutions from the design laboratory through to the component test area.

- ▶ Versatile solution for testing dc power sources
- ▶ Constant current, constant resistance, constant conductance, constant voltage and constant power modes
- ▶ Wide voltage and current range, 0 to 80 volts and 0 to 80 amps.
- ▶ 300 watts continuous dissipation at 40°C (350W at 28°C)
- ▶ Low minimum operating voltage of <1V at 40A
- ▶ Ten turn controls for level setting
- ▶ Built-in transient generator with variable slew
- ▶ Current monitor output for waveform viewing
- ▶ Variable drop-out voltage for battery testing
- ▶ Analog remote control capability

LD400 & LD400P

- ▶ 360 watt dc electronic load
- ▶ Up to 80 volts or 80 amps
- ▶ CI, CR, CV and CP modes
- ▶ Built-in transient generator
- ▶ USB, RS232, LAN and GPIB

NEW



- ▶ Digitally controlled dc electronic load
- ▶ Constant current, constant resistance, constant conductance, constant voltage and constant power modes
- ▶ Wide voltage and current range, 0 to 80 volts and 0 to 80 amps.
- ▶ 360 watts continuous dissipation at 40°C (400W at 28°C)
- ▶ Up to 600 watts intermittent dissipation
- ▶ Low minimum operating voltage of <1V at 40A
- ▶ Built-in transient generator with variable slew
- ▶ Current monitor output for waveform viewing
- ▶ Variable drop-out voltage for battery testing
- ▶ USB, RS232, LAN (LXI) and GPIB interfaces (LD400P)

The LD400 has been developed from the LD300 and offers higher power and fully digital control. The LD400P includes a wide range of digital remote control interfaces.



Thurlby Thandar Instruments Ltd. (TTi) is one of Europe's leading manufacturers of test and measurement instruments.

Products have been sold under two brand names - TTI and Aim.

In the future, however, the full product range will be branded Aim-TTI.



Further Products

The preceding pages are an extract from the 36 page general Aim-TTI Product Summary brochure which also includes laboratory power supplies, precision test instruments, and RF & EMC test equipment.

The Aim-TTI Web Site

This catalogue provides only limited information on each product.

The Aim-TTI Web sites

Detailed product information is provided on the Aim-TTI web site, together with support information and price lists.

There are three web sites relating to your geographic location: international, UK and USA (see below):

The screenshot shows the Aim-TTI website homepage. At the top, there is a navigation bar with the Aim-TTI logo and the tagline 'advanced electronic test instruments & power supplies'. Below this, it says 'AIM & THURLBY THANDAR INSTRUMENTS'. The main content area features a welcome message and navigation links for international, USA, and UK customers. A featured product section highlights 'TG501xA & TG251xA' as 'NEW & FEATURED PRODUCTS', describing them as 'Top value arbitrary/function/pulse generators - single or dual channel up to 50MHz sine & square'. A '3 year warranty' badge is also present. Below the featured products, there are sections for 'Laboratory Power Supplies', 'Waveform Generators', 'Precision Measurement', and 'RF and EMC Test Equipment', each with images of the respective products.

aimtti.com

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Note that not all products are available in the USA.

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