Mixed-mode Regulation

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 and TSX series.

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

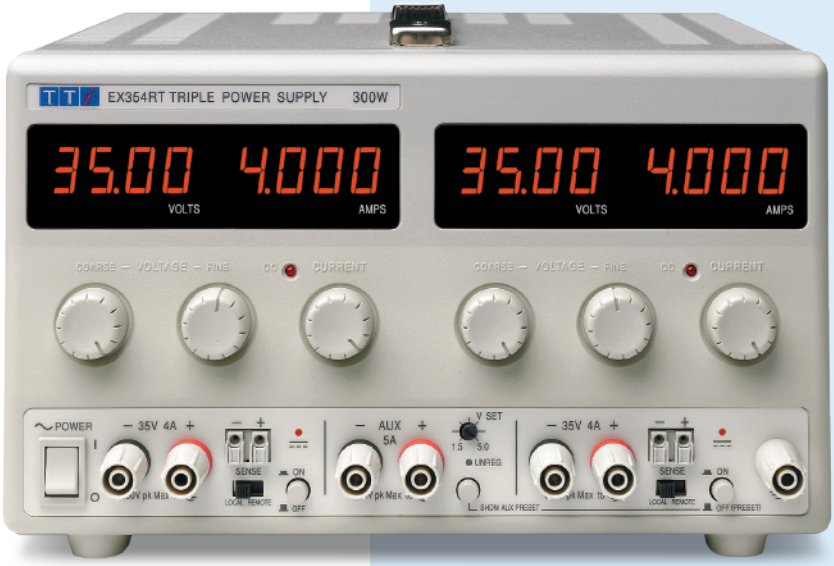
Model	Outputs	Voltage / Current	Power	Interfaces
EX355R	One	0 to 35V / 0 to 5A	175W	-
EX355P	One	0 to 35V / 0 to 5A	175W	RS232
EX355P-USB	One	0 to 35V / 0 to 5A	175W	USB
EX1810R	One	0 to 18V / 0 to 10A	180W	-
EX2020R	One	0 to 20V / 0 to 20A	400W	-
EX4210R	One	0 to 42V / 0 to 10A	420W	-
EX354RD	Two	2 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% ± 1digit, current - 0.6% ± 1digit.
Sizes: singles - 140 x 160 x 295mm; dual/triple - 260 x 160 x 295mm (WxHxD)

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.

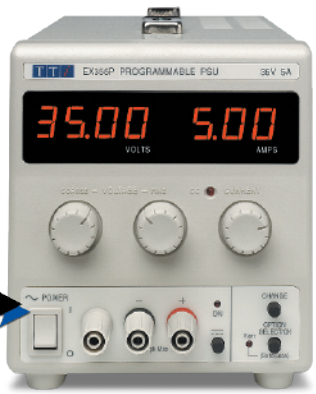
The EX354RT triple (illustrated) has a variable voltage auxiliary output which can be set using the digital displays. ▼



- 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.*

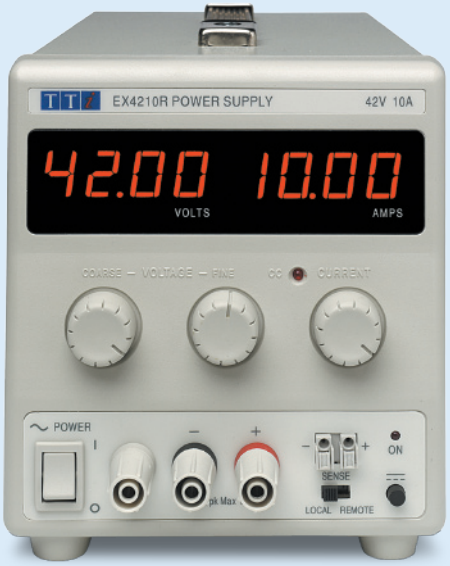


USB UNIVERSAL SERIAL BUS

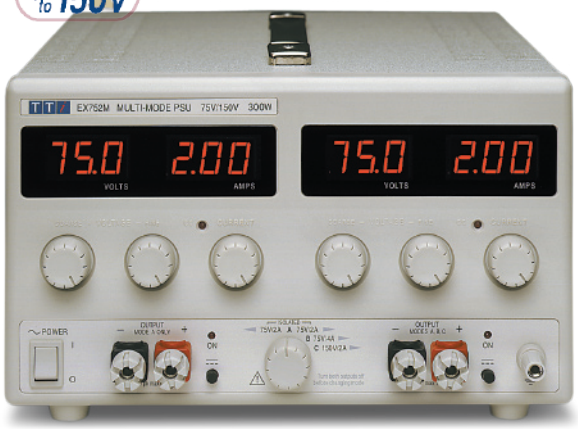
RS-232 RS-423

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.*



Higher voltage up to 150V



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.

Higher current up to 20A