

Astatine Speed (preliminary)

**200 A pulse-current
5 μ s to CW
equipped with Picolas
LDP-C 200-20
up to 12 V clamp-voltage
air - cooled
19 inch enclosure**



The Astatine Speed is equipped with Picolas famous driver LDP-C 200-20. There are two options for the installed average power: 500 W or 1000 W.

The devices are short-circuit-proof and adapt the load automatically. They can be controlled via an optional front panel and via EIA-232, USB and CAN-Bus.

A multiplicity of security-loops and interfaces makes the integration in your environment easy.

The devices are build in a modular way and can be customized to your requirements.



Picture 1: rear view

Astatine Speed (preliminary)



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|------------------------------------|--|
| Output current | 10 to 200 A, between pulses 0 A |
| max. compliance voltage | 12 V |
| Typ. pulse rise time (@100A) | 0.8 to 5 μ s (see Picolas manual) |
| Typ. pulse trigger delay | 2 to 6 μ s (see Picolas manual) |
| Min. pulse duration (@100A) | < 5 μ s (see Picolas manual) |
| Max. pulse duration | CW |
| Max. repetition rate (@100A) | > 100 kHz (see Picolas manual) |
| Current ripple | < 2.5 A, > 20 kHz |
| Current overshoot | < 5% |
| Current settling time (full scale) | < 100 ms (see Picolas manual) |
| Input AC power | 90 – 240 VAC / 50 – 60 Hz |
| Dimension | 19 inch, 3 HU, depth depending on device |
| Weight | Between 12 and 18 Kg, depending on device |
| Emergency Stop | Potential free, dual |
| Interlock | 2x dual, 1x single, potential free |
| Current Monitor | Analog 0V - 4V |
| External Trigger | 5V over Optocoupler |
| Shutter control | 2 relay outputs |
| Outputs | Relay Output Laser ON (1 A, 30 V) Relay Output ERROR (1A, 30 V) |
| 24 V Inputs | customable |
| 3 Outputs TTL 50 Ohm | customable, e.g. Pockels – Cell Trigger |
| 1 TTL Input | customable |
| Emergency Stop Button, Keyswitch | optional |