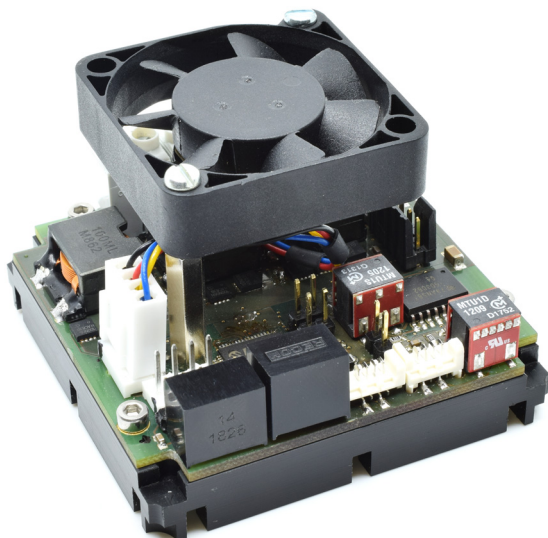
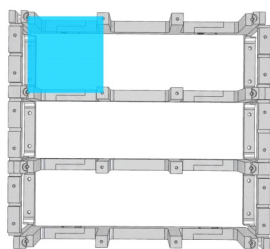


420W Laser Diode Driver & TEC controller on 6.25 x 6.25 cm
M1LDCTC3014 (14A / 30V) / M1LDCTC4108 (8A / 41V)


Product Nr.: M1LDCTC top view



Product Nr.: M1LDCTC bottom view

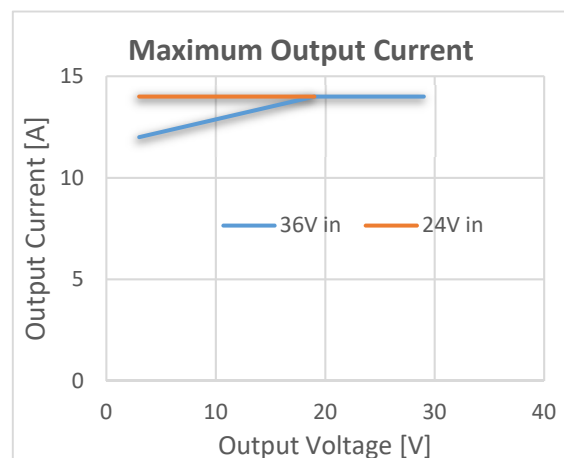


space used in grid

 disclaimer: <https://8photonics.com/disclaimer>

- Output voltage / current:
1 – 30 V / 0 – 14 A¹ (M1LDCTC3014)
1(2²) – 41 V / 0 – 8 A (M1LDCTC4108)
- Current setpoint resolution < 0.5 mA
- Current ripple (typ. < 0.5% @ 10A, 500kHz)
- Input voltage 15 - 36 V (M0101LDCTC3014)
- Input voltage 15 - 48 V (M0101LDCTC4108) (>15% above output voltage)
- Efficiency up to 96 %
- TEC controller output: +20 V / 0 – 10 A (bipolar, max 75 % of input voltage)
- Temperature stability of PID controller: typ. 0.001 K
- Dynamic air cooled electronics, no heat sink needed
- Compatible with temperature plates TPAxx & TPWxx
- Overheating protection
- Connectors for peltier element and NTC 10 kOhm
- Fully daisy chainable:
 - 2 x power connectors³
 - 2 x isolated RS485 connectors
 - unique device address
- Interlock header (LD driver disabled if open)
- ASCII command set (SCPI* structure)
- LED indicators for power/warning/error (can be disabled by dip switches)
- Size 62.5mm x 62.5mm (1 x 1 grid units)
- Demo files for LabVIEW™ & Matlab™ on request
- Converters available for Ethernet or USB

*Standard Commands for Programmable Instruments


¹ For input voltages above 24V maximum output current decreases with low output voltages. (see graph)

² Vout minimum is approx.. 3% of input voltage.

³ 10A max per connector. For higher currents both connectors must be used as parallel inputs.