

**ds11-t95-series****Tabletop Laser Current Source & TEC Controller**

 © OsTech	<p>The product series ds11-t95 of table top drivers has all features of the ds-series. It is powered by an input voltage of 110~230VAC with power factor correction. The power ranges from 100W to 600W. The laser diode current ranges up to 75A and voltage up to 48V.</p> <p>As in all DS devices an RS232 interface for controlling and monitoring is integrated. CW or pulse modes are available. An pulse generator is integrated. External digital or analog modulation is supported.</p> <p>The typical rise time is 25µs. Rise times below 5µs are achievable. Optionally, up to 2 TEC circuits are possible.</p>
<p>PRECISION CURRENT SOURCE:</p> <ul style="list-style-type: none"> • Current: 0 – Imax (CW and pulsed) • Accuracy: ± 0.5% • Voltage: 0 – Vmax, Volts Compliance Voltage Range • Setpoint Resolution: 12Bit (Imax/4096) • Noise and Ripple: < 1% full scale (rms), typ <0.1% • trise-tfall typical ~ 25us (opt. < 5us) <p>INTEGRATED PROTECTION FEATURES:</p> <ul style="list-style-type: none"> • Slow-start circuitry • Voltage and current limits • Transient protection and shut-down • Open circuit shut-down • Over temperature shut-down • Interlock shut-down <p>PRECISION TEMPERATURE CONTROLLER:</p> <ul style="list-style-type: none"> • TEC Control Power up to 300W 4A-14V, 8A-14V, 12A-18V, 12A-24V, 7A-48V or others • Temperature Control Range: -25°C to 150°C • Accuracy typ. ±0.01K • Fast Feedback Loop P.I.D. temperature controller • Temperature Limits • Temp. Sensor Inputs for NTCs (standard 10 kΩ), PT100, PT1000 and others <p>PULSING (QCW) MODE OF OPERATION:</p> <ul style="list-style-type: none"> • Rise / Fall Time: < 25µs, 10%-90% (< 5µs on request) • Integrated pulse generator • Bias Current option • Integrated low impedance cables for clean pulse response • Accepts external analog and digital modulation • Single pulses and pulse bursts, internal or external triggered 	<p>INTERFACE:</p> <ul style="list-style-type: none"> • Front Panel display with touch-keys • RS-232 remote I/O with optional USB • free PC User Interface based on LabVIEW™ • free LabVIEW™ VI <p>DEVICE FEATURES:</p> <ul style="list-style-type: none"> • Photo Diode Power Monitoring included • Pilot Laser Supply • Adjustable External Fan Support • Supply Voltage: 110~230VAC <p>OPTIONAL:</p> <ul style="list-style-type: none"> • up to 2 TEC circuits • additional noise reduction for I < 30A • up to 400% pulse current boost • interfaces USB, RS485 or RS422

Selection of some Standard Device Configurations:

Type	Device Name	Laser Current Max[A]	Laser Voltage Max[V]	1st TEC Current Max[A]	1st TEC Voltage Max[V]	1st TEC Current Max[A]	1st TEC Voltage Max[V]
602	ls11-la50v05-t9519-v0-602	50	5				
448	ls11-la25v12-t9519-v0-448	25	12				
127	ls11-la14v24-t9519-v0-127	14	24				
208	ls11-la06v48-t9519-v0-208	06	48				
254	ds11-la12v14-pa08v16-t9519-v2-254	12	14	8	16		
337	ds11-la16v08-pa08v16-t9519-v1-337	16	8	8	16		
212	ds11-la18v08-pa08v16-t9519-v1-212	18	8	8	16		
135	ds11-la12v06-pa08v14-pa04v14-t9511-v1-135	12	6	8	14	4	14

If your type is not among the listed types please request!

