

# LT-6500 (T6)

## CW ARRAY

Lasertel CW arrays are based on a patented, extremely flexible assembly technology that eliminates common failure mechanisms associated with conventional CW arrays.

### WAVELENGTHS:

✦ 808

✦ 830

✦ 885

✦ 976



# LT-6500 (T6) QCW ARRAY

**WAVELENGTH: 808**

TYPICAL OPTICAL PARAMETERS (@25°C)		UNITS	VALUE			
Output Power per Bar	W	40	60	80	100	
Operation Mode		CW	CW	CW	CW	
Emission Length per Bar	mm	10	10	10	10	
Number of Bars	#	1 to 20	1 to 15	1 to 12	1 to 5	
Bar Pitch	mm	1.2 or 1.8	1.2 or 1.8	1.2 or 1.8	3.3	
Maximum Array Output Power	W	800	900	960	500	
Beam Divergence						
Fast Axis (FWHM)	°	38	38	38	38	
Slow Axis (FWHM)	°	12	12	12	12	
TYPICAL ELECTRICAL PARAMETERS (@25°C)						
Power Conversion Efficiency	%	50	52	50	50	
Threshold Current	A	8	12	16	18	
Operating Current	A	45	65	85	105	
Operating Voltage per Bar	V	1.9	1.9	1.9	1.9	
THERMAL PARAMETERS						
Operating Temperature	°C	10 to 50	10 to 50	10 to 50	10 to 50	
Storage Temperature	°C	0 to 70	0 to 70	0 to 70	0 to 70	

# LT-6500 (T6) QCW ARRAY

**WAVELENGTH: 830**

TYPICAL OPTICAL PARAMETERS (@25°C)		UNITS	VALUE			
Output Power per Bar	W	40	60	80	100	
Operation Mode		CW	CW	CW	CW	
Emission Length per Bar	mm	10	10	10	10	
Number of Bars	#	1 to 20	1 to 15	1 to 12	1 to 5	
Bar Pitch	mm	1.2 or 1.8	1.2 or 1.8	1.2 or 1.8	3.3	
Maximum Array Output Power	W	800	900	960	500	
Beam Divergence						
Fast Axis (FWHM)	°	38	38	38	38	
Slow Axis (FWHM)	°	12	12	12	12	
TYPICAL ELECTRICAL PARAMETERS (@25°C)						
Power Conversion Efficiency	%	50	52	50	50	
Threshold Current	A	8	12	16	18	
Operating Current	A	45	65	85	105	
Operating Voltage per Bar	V	1.9	1.9	1.9	1.9	
THERMAL PARAMETERS						
Operating Temperature	°C	10 to 50	10 to 50	10 to 50	10 to 50	
Storage Temperature	°C	0 to 70	0 to 70	0 to 70	0 to 70	

# LT-6500 (T6) QCW ARRAY

**WAVELENGTH: 885**

TYPICAL OPTICAL PARAMETERS (@25°C)		UNITS	VALUE			
Output Power per Bar	W	40	60	80	100	
Operation Mode		CW	CW	CW	CW	
Emission Length per Bar	mm	10	10	10	10	
Number of Bars	#	1 to 20	1 to 15	1 to 12	1 to 5	
Bar Pitch	mm	1.2 or 1.8	1.2 or 1.8	1.2 or 1.8	3.3	
Maximum Array Output Power	W	800	900	960	500	
Beam Divergence						
Fast Axis (FWHM)	°	38	38	38	38	
Slow Axis (FWHM)	°	12	12	12	12	
TYPICAL ELECTRICAL PARAMETERS (@25°C)						
Power Conversion Efficiency	%	50	52	50	50	
Threshold Current	A	8	12	16	18	
Operating Current	A	45	65	85	105	
Operating Voltage per Bar	V	1.9	1.9	1.9	1.9	
THERMAL PARAMETERS						
Operating Temperature	°C	10 to 50	10 to 50	10 to 50	10 to 50	
Storage Temperature	°C	0 to 70	0 to 70	0 to 70	0 to 70	

# LT-6500 (T6) QCW ARRAY

**WAVELENGTH: 976**

TYPICAL OPTICAL PARAMETERS (@25°C)		UNITS	VALUE			
Output Power per Bar	W	40	60	80	100	
Operation Mode		CW	CW	CW	CW	
Emission Length per Bar	mm	10	10	10	10	
Number of Bars	#	1 to 20	1 to 20	1 to 20	1 to 20	
Bar Pitch	mm	1.2 or 1.8	1.2 or 1.8	1.2 or 1.8	1.2 or 1.8	
Maximum Array Output Power	W	800	1200	1600	2000	
Beam Divergence						
Fast Axis (FWHM)	°	38	38	38	38	
Slow Axis (FWHM)	°	12	12	12	12	
TYPICAL ELECTRICAL PARAMETERS (@25°C)						
Power Conversion Efficiency	%	55	52	50	50	
Threshold Current	A	8	12	16	16	
Operating Current	A	45	65	85	85	
Operating Voltage per Bar	V	1.9	1.9	1.9	1.9	
THERMAL PARAMETERS						
Operating Temperature	°C	10 to 50	10 to 50	10 to 50	10 to 50	
Storage Temperature	°C	0 to 70	0 to 70	0 to 70	0 to 70	

