

# INDUSTRIAL DPSS LASER

MODEL NO.	10-1064	15-1064	20-1064	30-1064
<b>Parameter</b>				
Laser Medium	Nd:YVO <sub>4</sub>	Nd:YVO <sub>4</sub>	Nd:YVO <sub>4</sub>	Nd:YVO <sub>4</sub>
Wavelength	1064 nm	1064 nm	1064 nm	1064 nm
Nominal Power @40Khz	10W	15W	20W	30W
Repetition Rate	10 - 150 KHz			
Pulse Width	<30 ns @ 40 kHz			
Pulse Energy	250uJ @ 40 kHz	375uJ @ 40 kHz	500uJ @ 40 kHz	750uJ @ 40 kHz
Peak Power	>8.33kW @ 40 kHz	>12.5kW @ 40 kHz	>16.67kW @ 40 kHz	>25kW @ 40 kHz
<b>Beam Characteristic</b>				
Pulse - to - Pulse Stability	<2% @ 40 kHz			
Power Stability (rms, 8h)	<2%			
Spatial Mode	M <sup>2</sup> <1.3, TEM <sub>00</sub>			
Nominal Beam Diameter (at waist)	<1 mm			
Nominal Waist Location (from output)	<1 mm			
Beam Divergence (full angle)	≤2 mrad			
Nominal Beam Diameter (at output)	<1.1 mm			
Polarization	Horizontal, >100:1			
Circularity	>90 %			
<b>Working environment</b>				
Warm - up Time	<15 min			
Operating Voltage OEM P / S (standard)	24 VDC			
Operating Voltage 19" P / S (optional)	AC 220 V or AC 110 V, 50 Hz / 60 Hz			
Laser Power Consumption	<350 W			
Cooling	Air	Air	Water	Water
Ambient Temperature	15 - 35 °C			
External Temperature	RS232			
<b>Physical parameter</b>				
Dimensions Laser Head (L x W x H)	<440 x 120 x 95 mm			
Weight Laser Head	<12 Kg			

# INDUSTRIAL DPSS LASER

MODEL NO.	40-1064	50-1064	60-1064
Parameter			
Laser Medium	Nd:YVO <sub>4</sub>	Nd:YVO <sub>4</sub>	Nd:YVO <sub>4</sub>
Wavelength	1064 nm	1064 nm	1064 nm
Nominal Power	40W @ 40 KHz	50W @ 40 KHz	60W @ 40 KHz
Repetition Rate	10 - 150 KHz		
Pulse Width	<30 ns @ 40 kHz		
Pulse Energy	1000uJ @ 40 kHz	1250uJ @ 40 kHz	1500uJ @ 40 kHz
Peak Power	>33.3kW @ 40 kHz	>41.67kW @ 40 kHz	>50kW @ 40 kHz
<b>Beam characteristics</b>			
Pulse - to - Pulse Stability	<2% @ 40 kHz		
Power Stability (rms, 8h)	<2%		
Spatial Mode	M <sup>2</sup> <1.3, TEM <sub>00</sub>		
Nominal Beam Diameter (at waist)	<1 mm		
Nominal Waist Location (from output)	<1 mm		
Beam Divergence (full angle)	≤2 mrad		
Nominal Beam Diameter (at output)	<1.1 mm		
Polarization	Horizontal, >100:1		
Circularity	>90 %		
<b>Working environment</b>			
Warm - up Time	<15 min		
Operating Voltage OEM P / S (standard)	24 VDC		
Operating Voltage 19" P / S (optional)	AC 220 V or AC 110 V, 50 Hz / 60 Hz		
Laser Power Consumption	<350 W		
Cooling	Water	Water	Water
Ambient Temperature	15 - 35 °C		
External Temperature	RS232		
<b>Physical parameter</b>			
Dimensions Laser Head (L x W x H)	<450 x 230 x 95 mm		
Weight Laser Head	<20 Kg		

# INDUSTRIAL DPSS LASER

MODEL NO.	Galver-527	Galver-532	Galver-532SP	Galver-532HP
<b>Parameter</b>				
Wavelength	527nm	532nm	532nm	532nm
Power	>3W@3kHz	>8W@50kHz	>3W@20kHz	>50W@50kHz
Repeat frequency	1-10kHz	0-200kHz	0-200kHz	20-200kHz
Pulse energy	>2000 $\mu$ J @1kHz	>160 $\mu$ J@50kHz	>150 $\mu$ J (20kHz)	1mJ@50kHz
Pulse width	60ns	10ns	5ns	20ns
<b>Beam characteristics</b>				
Spot mode	TEM00	TEM00		
M2 factor	<1.2	<1.2	<1.3	
Polarization state	>100:1 Vertical polarization	>100:1 Vertical polarization		
Beam divergence angle	<2 mrad	<2 mrad		
Pointing stability	< $\pm$ 25 $\mu$ rad/ $^{\circ}$ C	< $\pm$ 25 $\mu$ rad/ $^{\circ}$ C		
Power stability	<1% rms	<1% rms	<1.5% rms	
<b>Working environment</b>				
Cooling method	Air cooling/water cooling	Air cooling/water cooling	Water cooling	
Preheat time	<10 min	<10 min	<10 min	
Temperature range	10-35 $^{\circ}$ C	10-35 $^{\circ}$ C	10-35 $^{\circ}$ C	
Humidity range	5%-95%	5%-95%	5%-95%	
Temperature setting	23 $^{\circ}$ C $\pm$ 0.1 $^{\circ}$ C	23 $^{\circ}$ C $\pm$ 0.1 $^{\circ}$ C	22 $^{\circ}$ C $\pm$ 0.1 $^{\circ}$ C	
<b>Physical parameter</b>				
Laser head size (LxWxH)	(432x142x147mm)	(372x180x127mm) / (432x112x147mm)		(435x279x102mm)
Laser head weight	13KG	12KG	12KG	20KG
Controller size	(438x420x145mm)	Can be integrated with laser head		

# INDUSTRIAL DPSS LASER

MODEL NO.	Lancer-266SP	Lancer-351SP	Lancer-355HP	Lancer-355SP
<b>Parameter</b>				
Wavelength	266nm	351nm	355nm	355nm
Power	≥1W	1W@1kHz	≥35W	3-30W
Repeat frequency	0-200kHz	1-4kHz	0-200kHz	0-200kHz
Pulse energy	50μJ (20kHz) 125uJ (1kHz)	>1mJ@1kHz	1000μJ (30-40kHz)	75-1000μJ (30-40kHz)
Pulse width	12ns	<50ns@1kHz	<40ns	<20ns
<b>Beam characteristics</b>				
Spot mode	TEM00	TEM00	TEM00	
M2 factor	<1.5	<1.2	<1.3	<1.3
Polarization state	Elliptical polarization optional	>100:1 Horizontal polarization	>100:1 Horizontal polarization	
Beam divergence angle	<2 mrad	<2 mrad	<2 mrad	
Pointing stability	<±25 μrad/°C	<±25 μrad/°C	<±25 μrad/°C	
Power stability	<1.5% rms	<1% rms	<1% rms	<1% rms
<b>Working environment</b>				
Preheat time	<10 min	<10 min	<10 min	
Temperature range	10-35°C	10-35°C	10-35°C	
Humidity range	5%-95%	5%-95%	5%-95%	
Temperature setting	22°C±0.1°C	22°C±0.1°C	22°C±0.1°C	
<b>Physical parameter</b>				
Laser head size (LxWxH)	(435x279x102mm)	(632.5x210x141mm)	(435x279x102mm)	
Laser head weight	12.5KG	12.5KG	15.5KG	12KG
Controller size (LxWxH)	(438x420x145mm)	Can be integrated	15W and below can be integrated with laser head	

# INDUSTRIAL DPSS LASER

MODEL NO.	River-3.4
<b>Parameter</b>	
Wavelength	3.4 $\mu$ m
Power	>1W@40kHz
Repeat frequency	20-100kHz
Pulse energy	>25 $\mu$ J@40kHz
Pulse width	10ns
<b>Beam characteristics</b>	
Polarization state	> 100:1 Horizontal polarization
Pointing stability	< $\pm$ 25 $\mu$ rad/ $^{\circ}$ C
Power stability	<2% rms
<b>Working environment</b>	
Cooling method	Wind cooling
Preheat time	<10 min
Temperature range	10-35 $^{\circ}$ C
Humidity range	5%-95%
<b>Physical parameter</b>	
Laser head size (LxWxH)	(380x110x120mm)
Laser head weight	<5KG
Controller size	customizable

