

4-3-1. 적용 LASER SOURCE SPEC.

〈제품사양〉

Model		AVIA 355-5	AVIA 355-7	AVIA 355-10	AVIA 355-14
Wavelength	nm	355			
Average Output Power	W	5 @ 50 KHz	7 @ 60 KHz	10 @ 60 KHz	14 @ 100 KHz
Pulse Width	ns	<20 @ 60 KHz	<35 @ 60 KHz		<40 @ 100 KHz
Pulse-to-Pulse Stability (1σ)	% rms	<5 @ 60 KHz	<5 @ 60 KHz		<5 @ 100 KHz
Beam Diameter (1/e ²)	mm	2.4±10%	3.5±10% ^{*)}		
Beam Divergence (Full Angle)	mrad	<0.5	<0.3 ^{*)}		
Pulse Repetition Rate	kHz	Single Shot to 150	Single Shot to 300		
Polarization		(>100:1)	Linear, 100:1, horizontal		
Warm-up Time	분		Standby 모드 시 : <15 Cold Start 시 : <40		
Spatial Mode ^{*)}			TEM ₀₀ (M ² <1.3)		

〈유틸리티〉

Operating Voltage	VAC		100 to 240 (단상)
Power Consumption	W	최대800 (400W전행치)	최대1200 (600W전행치)
Line Frequency	Hz		50 to 60
Operating Temperature	℃		10 to 30
Cooling	Laser Head ^{*)}		Water-cooled (최대 Heat Load : 300W)
	Power Supply		Air-cooled (최대 Heat Load : 650W)
Dimensions (L×W×H) /Weights	Laser Head	mm 564.7 x 235 x 141.1 / 12 kg	799 x 203 x 195 / 26 kg
	Power Supply	mm	452 x 434 x 254 / 38.6 kg
	Umbilical Length	m	3 / 2.7 kg

4-2. POEWR SUPPLY 구성



4-3. LASER SOURCE



[COHERENT AVIA 355-14]