

High Power Pulse Source Specifications(PSS PLT2301)

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Product Introduction

PSS PLT2301 pulse source is suitable for testing high-power lasers such as visible laser, Lidar TO, VCSEL array etc. It supports pulse, DC PIV characteristic curve scanning test and characteristic parameter calculation, and supports spectral characteristic test (It requires an external spectrometer). The instrument integrates the functions of pulse voltage source, ammeter, voltmeter and optical power meter, it has the characteristics of small size, fast test speed and easy to use.



PSS PLT2301

Product Application

- ➤ High-power Lidar TO Test
- ➤ VCSEL laser array Test
- ➤ High-power BAR pulse Test
- ➤ High-power COS/COC pulse Test
- > Seed source device pulse Test
- Visible laser device pulse Test



Product features

- Supports us-level pulse, DC output and test
- Supports pulse & DC PIV high-speed scan test
- Minimum pulse width is 10us, maximum duty cycle can reach 60%
- Maximum output voltage is 40V, drive current can reach 30A
- Supports arbitrary current waveform editing and output
- Supports pulse edge slope control, it can adaptive different devices without overshoot
- Supports voltage two-wire and four-wire detection, maximizes improve the detection accuracy
- Supports multiple devices in parallel, it provides greater output current
- Supports high-speed acquisition and drawing of arbitrary single pulse waveform under continuous pulses, real-time monitoring of pulse waveform
- Supports 2-channel synchronous pulse trigger outputs, polarity and synchronous pulse width are adjustable
- Supports output pre-check protection function, it ensures devices work safely
- Supports output short-circuit protection, equipment over-temperature protection
- Provides an external integrating sphere (optional), it used for high-power laser detection
- PD response wavelength range 850~1700nm
- Supports local and remote database, supports industrial production MES system



Technical Parameter

Product Parameters					
Items	Specification classification	Specification name	Description/Value		
	Electrical	power supply voltage (V)	AC:220		
	Specification	Power (W)	150		
		Power input	220VAC		
		Drive output	8W8		
		Trigger Out	2*BNC		
		Trigger In	1*BNC		
		100M network port	1*RJ45		
	External	RS232 serial port	1*DB9		
T	interface		φ2.0pin tube,		
Instrument Specification		Front optical power input	850~1700nm		
		electrical power input	1*SMA		
		MPD+output	1*SMA		
		MPD - input	1*SMA		
	Di . 16:	Product size (WxLxH)	380*200*90mm		
	Physical Size	Total weight	6.9Kg		
	Work and	Working Temperature	23±5°C		
	storage	Storage Temperature	0~40°C		
	Guaran	Guarantee period	1 Year		
			0~0.1A, Accuracy		
Electrical	DC performance	Output current	0.1%RDG±0.1mA		
Performance Specification			0~0.5A, Accuracy		
			0.1%RDG±0.5mA		



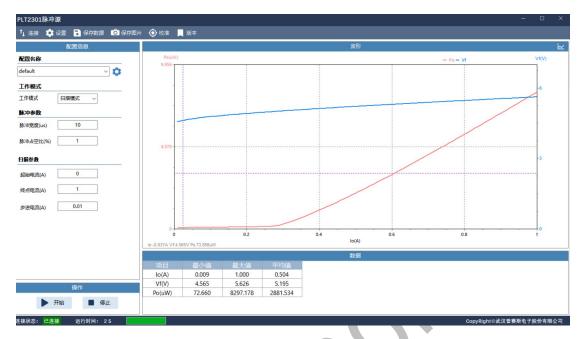
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			0~5A, Accuracy
			0.1%RDG±5mA
		Output voltage	10V
		Current detection	0~0.1A, Accuracy
			0.1%RDG±0.1mA
			0~0.5A, Accuracy
			0.1%RDG±0.5mA
			0~5A, Accuracy
			0.1%RDG±5mA
		Voltage detection	0~10V, Accuracy
			0.1%RDG±10mV
	Pulse	output current	0~5A, Accuracy
			0.1%RDG±5mA
			0~30A, Accuracy
			0.1%RDG±30mA
		Output voltage	Gear 1: 10V
			Gear 2: 40V
		Pulse width	10μs~5ms, Remark: Half
			width and height
		Pulse width resolution	10ns
		Pulse rise & fall time	≤20%* Pulse width
		Pulse width accuracy	≥20ns
		Pulse duty cycle	Output voltage 10V
			gear , D≤5/I×100%;
			Output voltage 40V gear,
			D≤0.83/I×100%
			Remark: D is the duty
			cycle, maximum value≤



			60%; I is the load current.
			0~5A, Accuracy
		Current detection range and	0.1%RDG±5mA
		accuracy	0~30A, Accuracy
			0.1%RDG±30mA
		Voltage detection range and	0~10V, 0.1%RDG±10mV
		accuracy	0~60V, 0.1%RDG±60mV
			0~100uW, Accuracy
			0.1%RDG±0.1uW
	Optical port	Optical port power detection	0~1mW, Accuracy
	power	range and accuracy	0.1%RDG±1uW
			0~5mW, Accuracy
			0.1%RDG±5uW
			0~100uA, Accuracy
			0.1%RDG±0.1uA
Photoelectric	Electrical	Electrical port current	0~1mA , Accuracy
Performance	port current	detection range and accuracy	0.1%RDG±1uA
Specification			0~10mA,Accuracy0.1%R
Specification			DG±10uA
	5	MPD+reverse bias voltage	0~5V, Accuracy
			1%RDG±50mV
			0~100uA, Accuracy
	MPD		0.1%RDG±0.1uA
	MIPD	Current detection range and	0~1mA, Accuracy
		accuracy	0.1%RDG±1uA
			0~10mA, Accuracy
			0.1%RDG±10uA



Typical data



Laser TO test data

Contact

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