



ARC PULSE PASMA HIGH VOLTAGE SOURCE

Model **PPHV3000** Pulse Plasma High Power High Voltage Supply has integrated 3kV 150W high voltage supply, precision delay timer, and fast high voltage push-pull switches all mounted into a single 19" rack module.

Applications:

Arc Plasma Source
HV Pulse Generator

Specifications:

Model	PPHV3000 (Arc Pulse Plasma High Power High Voltage Source)
HV Supply	
• Internal High Voltage:	0-3000V 50mA 150W positive supply panel 10 turn pot programmable
• HV Monitoring Output:	SHV 1M series resistor current limited
Delay Timer	
• Repeat Rate Clock:	1Hz to 1kHz (3 digits push wheel switches)
• External Trigger:	0-5V TTL / CMOS 1us pulse high active
• Sync Pulse Output:	0-5V TTL / CMOS 1us high level active
• Sync to Gate Delay:	1us to 1ms (3 digits push wheel switches-must fit in Clock period)
• Gate Pulse Width:	1us to 1ms (3 digits push wheel switches-must fit in Clock period)
High Voltage Pulser	
• HV Pulser Output:	On SHV Connector and equal to High Voltage – 50V difference
• HV Pulser ON Time:	250ns typical 500ns maximum into 50pF load / current limited arc
• HV Pulser OFF Time:	250ns typical 500ns maximum into 50pF load / current limited arc
• HV Pulser Jitter:	<50ns
• HV Pulser ON Delay:	250ns from gate pulse
• HV Pulser OFF Delay:	250ns from gate pulse
Other	
• Panel Display:	LCD 2 Line
• External Power:	230V +/-10% 50Hz
• Instrument Case	19" 3U Metal shielded rack module
Accessories:	
• ISO-RS232	Wireless Isolated RS232 remote programming and control (Rs.100000.00)
• C50BNC1M-PE	RG58/U BNC Cable 1m insulation solid PE (Rs.1000.00)
• C50BNC1M-PTFE	RG58/U BNC Cable 1m insulation solid PTFE (Rs.2000.00)
• C50BNC3M-PTFE	RG58/U BNC Cable 3m insulation solid PTFE (Rs.3000.00)
• C50SHV1M-PTFE	RG58/U BNC Cable 1m insulation solid PTFE (Rs.5000.00)
• C0SHV3M-PTFE	RG58/U BNC Cable 3m insulation solid PTFE (Rs.9000.00)
Warranty:	
	12 months free repair at factory, paid repair service after 12 months
Price: PPHV3000	
	Rs.1299998.00 plus tax
Contact:	
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PPHV3000 Timing Parameter Table 1:

Label	Parameter	Minimum	Maximum	Unit
(t1)	External trigger synchronization start delay	10	200	ns
(t2)	External trigger synchronization stop delay	10	200	ns
(t3)	Sync to high voltage pulse output ON delay	200	300	ns
(t4)	Sync to high voltage pulse output OFF delay	200	300	ns
(t5)	Trigger pulse width on time	500	1000	ns
(t6)	Trigger pulse width off time	9	100	us
(t7)	Sync high voltage control signal ON time	1	1000	us
(t8)	Sync high voltage control signal OFF time	9	999	us
(t9)	HV pulse output ON time	100	500	ns
(t10)	HV pulse output OFF time	100	500	ns
(t11)	External trigger pulse period	1	1000	ms
(t12)	Internal timer pulse period	1	1000	ms

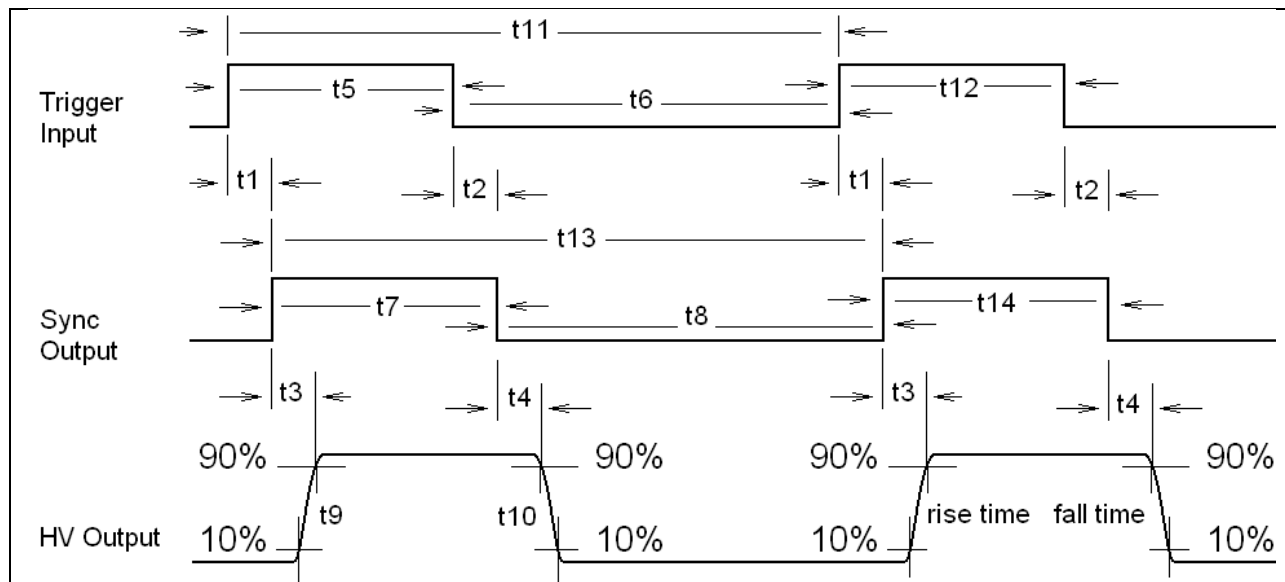


Figure 1: Timing diagram of the high voltage pulse switching system **PPHV3000**.

*Note: Parameters are by design and subject to change without prior notice. User is advised to contact our design team for specific custom parameter design and performance verification.

