TXMP1006 Series

X-ray power supply | 10kV~30kV, 1.5W~20W



- RS-232, RS-485 interface
- High stability, low ripple, low noice
- Integrated ground referenced filament supply
- Voltage and current control
- OV, Arc and short-circuit protection
- Local and remote programming
- OEM customization available

Product Introduction:

Teslaman TXMP1006 is a modular 10kV @ 10W X-Ray generator designed to drive a grounded filament X-Ray tube via closed loop filamentary control of the 0 to 1mA emission current. The grounded filament supply is rated at 0-5 amps @ 3Vdc. The filament supply features an internally adjustable 0.5 to 2.5 amp filament preheat and a internally adjustable 0 to 5 amp filament limit.

Typical Applications:

RoHS analyzer; fluorescence analysis; liquid level detection; film/metal thickness measurement; PCB board inspection; other imaging and X-ray inspection occasions; AI recognition; can be adapted to various cathode grounded X-ray tube

Specifications:

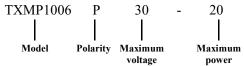
Description of Model Code

The model code represents the performance and parameters of the power supply, which are:

Maximum output voltage in kV;

Maximum output power in W;

Output polarity, P for positive output;



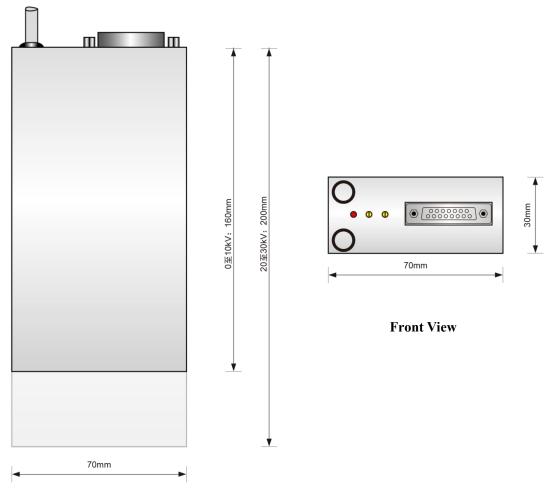
TXMP1006 SERIES MODEL SELECTION TABLE (CUSTOMIZABLE):

Rated Value		Model
kV	mA	Positive
10	0.5	TXMP1006P10-5
10	1.0	TXMP1006P10-10
10	2.0	TXMP1006P10-20
20	0.25	TXMP1006P10-5
20	0.5	TXMP1006P10-10
20	1.0	TXMP1006P10-20
30	0.17	TXMP1006P10-5
30	0.33	TXMP1006P10-10
30	0.67	TXMP1006P10-20

TXMP1006 DB15 PIN MALE D CONNECTOR:

10 Emission Current Monitor Monitor 11 Filament Current Monitor 12 Emission Current Program Input 13 Emission Current Program Output 14 Emission Current Current Emission Current Monitor 15 Emission Current Current Emission Current Current	TAMILIOUU DDISTIN MALE D CONNECTOR.				
2 Ground Ground 3 Preheat (set value) Preheat (set value) 4 Test (Filament Current Test (Filament Current 5 HV Enable HV Enable 6 Filament Stable Filament Stable 7 Dutput HV Program Output 8 HV Program Input HV Program Input 9 High Voltage Monitor High Voltage Monitor 10 Emission Current Monitor Emission Current Monitor 11 Filament Current Monitor Filament Current Monitor 12 Emission Current Program Input Current Monitor 13 Emission Current Program Output D-10Vdc from Internal Preset 14 D-10Vdc from Internal Preset 15 D-10Vdc from Internal Preset 16 Preheat (set value) Preheat (set value) 17 Program Output Preheat (set value) 18 Preheat (set value) 19 Preheat (set value) 10 Preheat (set value) 10 Preheat (set value) 10 Preheat (set value) 11 Preset (set value) 12 Preheat (set value) 13 Preheat (set value) 14 Program Output 15 Preheat (set value) 16 Program Output 17 Program Output 18 Program Output 19 Preheat (set value) 10 Program Output 11 Program Output 12 Program Output 13 Program Output 14 Program Output 15 Program Output 16 Program Output 17 Program Output 18 Program Output 19 Program Output 10 Program	PIN	Signal	Signal Parameters		
3 Preheat (set value) Preheat (set value)	1	+24Vdc	+24Vdc		
4 Test (Filament Current 5 HV Enable 6 Filament Stable 7 Output 8 HV Program Input 9 High Voltage Monitor 10 Emission Current Monitor 11 Filament Current Monitor 12 Emission Current Program Input 13 Emission Current Program Input 14 Test (Filament Current Current Monitor 15 HV Enable 16 HV Enable 17 HV Program Output 18 HV Program Input 19 High Voltage Monitor 10 Emission Current Monitor 11 Filament Current Monitor 12 Emission Current Program Input 13 Emission Current Program Output 14 Internal Preset 15 HV Enable 16 HV Enable 16 HV Enable 17 HV Program Output 18 HV Program Input 19 High Voltage Monitor 10 Emission Current Monitor 10 Internal Preset		Ground	Ground		
Current Current 5	3	Preheat (set value)	Preheat (set value)		
Current Current 5 HV Enable 6 Filament Stable 7 HV Program Output 8 HV Program Input 9 High Voltage Monitor 10 Emission Current Monitor 11 Filament Current Monitor 12 Emission Current Program Input 12 Emission Current Program Input 13 Emission Current Program Output	4	Test (Filament	Test (Filament		
6 Filament Stable 7 HV Program Output 8 HV Program Input 9 High Voltage Monitor 10 Emission Current Monitor 11 Filament Current Monitor 12 Emission Current Program Input 13 Emission Current Program Input 14 Program Input 15 Emission Current Program Input 16 Program Input 17 Emission Current Program Input 18 Emission Current Program Output 19 Filament Stable HV Program Output High Voltage Monitor Emission Current Monitor Filament Current Monitor 0-10Vdc = 0-1mA, Zin = 1MΩ accuracy ±3% of full scale 0-10Vdc from Internal Preset		Current	Current		
7 HV Program Output 8 HV Program Input 9 High Voltage Monitor 10 Emission Current Monitor 11 Filament Current Monitor 12 Emission Current Program Input 13 Emission Current Program Output HV Program Input Emission Current Monitor Filament Current Monitor 0-10Vdc = 0-1mA, Zin = 1MΩ accuracy ±3% of full scale 0-10Vdc from Internal Preset	5	HV Enable	HV Enable		
Noutput HV Program Output	6	Filament Stable	Filament Stable		
9 High Voltage Monitor 10 Emission Current Monitor 11 Filament Current Monitor 12 Emission Current Program Input 13 Emission Current Program Output High Voltage Monitor Emission Current Monitor 0-10Vdc = 0-1mA, Zim = 1MΩ accuracy ±3% of full scale 0-10Vdc from Internal Preset	7	U	HV Program Output		
9 High Voltage Monitor 10 Emission Current Monitor 11 Filament Current Monitor 12 Emission Current Program Input 13 Emission Current Program Output High Voltage Monitor Emission Current Monitor 0-10Vdc = 0-1mA, Zim = 1MΩ accuracy ±3% of full scale 0-10Vdc from Internal Preset	8	HV Program Input	HV Program Input		
10 Monitor Monitor 11 Filament Current Monitor 12 Emission Current Program Input 13 Emission Current Program Output 14 Program Output Monitor 0-10Vdc = 0-1mA, Zin = 1MΩ accuracy ±3% of full scale 0-10Vdc from Internal Preset	9		High Voltage Monitor		
Monitor Monitor	10	Emission Current	Emission Current		
		Monitor	Monitor		
Monitor Monitor Monitor Monitor Monitor 0-10Vdc = 0-1mA, Zin = 1MΩ accuracy ±3% of full scale Emission Current Program Output Monitor Monitor Monitor Monitor Monitor Monitor Monitor Monitor Monitor 0-10Vdc = 0-1mA, Zin = 1MΩ accuracy ±3% of full scale 13 Emission Current Program Output Internal Preset	11		Filament Current		
Emission Current Program Input = 1MΩ accuracy ±3% of full scale Emission Current Program Output = 1MΩ accuracy ±3% of full scale 0-10Vdc from Internal Preset		Monitor	Monitor		
Program Input accuracy ±3% of full scale Emission Current Program Output Internal Preset	12		0-10Vdc = $0-1$ mA, Zin		
Program Input accuracy ±3% of full scale Consistent Program Output accuracy ±3% of full scale 0-10Vdc from Internal Preset					
13 Emission Current Program Output 0-10Vdc from Internal Preset		Program Input	-		
13 Emission Current Program Output Internal Preset					
Program Output Internal Preset	13	Emission Current			
			Internal Preset		
14 Ground Ground	14	Ground	Ground		
Preset Max. Preset Max Filament	15	Preset Max.	Preset Max. Filament		
Filament Freset Max. Filament		Filament			

Dimensions: mm



Top View

