



- 4kW CHASSIS SINGLE 3U(5.25")
- OUTPUT VOLTAGE FROM 10kV TO 60kV
- ADJUSTABLE INTEGRATED FILAMENT SUPPLY
- OVER VOLTAGE, OVER TEMPERATURE, ARC OVER CURRENT & SHORT CIRCUIT PROTECTION
- VOLTAGE & CURRENT PROGRAMMING
- LOCAL AND REMOTE CONTROL
- SAFETY INTERLOCK
- OEM CUSTOMIZATION AVAILABLE

INTRODUCTION

Wisman's XDF series of portable X-ray high voltage high stable power supply with perfect protection system Output voltage and current local and remote programming. Voltage and current monitor. XDF is provided with safety interlock, short-circuit ,arc, over temperature, over voltage and over current protection, adjustable wide range and more optional functions.

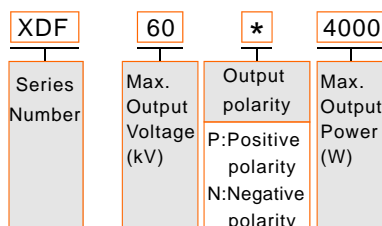
TYPICAL APPLICATIONS

X-ray tubes, X-ray Fluorescence ,Spectroscopy Analysis Science, Industrial Applications, Laboratory Applications.

XDF SELECTION TABLE

kV	mA	P(kW)	MODEL	kV	mA	P(kW)	MODEL
20	150	3	XDF20*3	20	200	4	XDF20*4
30	100	3	XDF30*3	30	133	4	XDF30*4
40	75	3	XDF40*3	40	100	4	XDF40*4
50	60	3	XDF50*3	50	80	4	XDF50*4
60	50	3	XDF60*3	60	67	4	XDF60*4

XDF SELECTION EXAMPLE



Option	
BFP	Blank Front Panel
HST	High stability
3PH220	180-264Vac,three phases
SSX	Slow start



PARAMETER	DESCRIBE
Input	Standard:180Vac~264Vac,50/60Hz(Single) Optional:180Vac~264Vac,50/60Hz three phase(3PH)
Output	Standard:180Vac~264Vac,38A(Maximum) Optional:180Vac~264Vac,17A maximum(three phase)
Stability	0.01% per 8 hours
Temperature Coefficient	≤25ppm/°C.
Ripple	0.03rms<1kHz, 0.75%Vrms. >1kHz
Voltage/Current Monitor	0 to +10Vdc corresponds to 0 to maximum output
Voltage Local Programming	Internal potentiometer to set voltage from 0 to maximum output voltage.
Voltage Remote Programming	0 to +10Vdc proportional from 0 to maximum output voltage.
Current Local Programming	Internal potentiometer to set current from 0 to maximum output current.
Current Remote Programming	0 to +10Vdc proportional from 0 to maximum output current.
Voltage Load Regulation	0.005% (no load to full load change).
Voltage Line Regulation	0.005%(Within the specified input range).
Current Load Regulation	0.01% (no load to full load change).
Current Line Regulation	0.005% (Within the specified input range).
Filament Supply	12Vac(dc option Filament Voltage).5A(12A maximum optional)
Temperature coeffience	25ppm/°C, 15ppm/°C can be customized.
Input/output connector	Db50, contain control and monitor signal.
Operating Temperature	0°C~+40°C.
Storage Temperature	-40°C~+85°C.
Cooling	Convection cooled. Inlet through side panel, outlet at rear panel.
Humidity	10%~90% RH, non-condensing.
Dimensions	5.20" (3U)H×19" W×24" D (132mm×483mm×610mm) .
Weight	40kg

RS-232/RS-485 DIGITAL INTERFACE

SIGNAL		SIGNAL	
1	N/C	6	N/C
2	TXD/Transmit Data	7	RS-485B
3	RXD/Receive Data	8	N/C
4	N/C	9	RS-485A
5	SGND		

ET INTERFACE

PIN	SIGNAL	PARAMETERS
1	RX+	Receive Data+
2	RX-	Receive Data-
3	TX+	Transmit Data+
4	N/C	No Connection
5	N/C	No Connection
6	TX-	Transmit Data-
7	N/C	No Connection
8	N/C	No Connection

ANALOG INTERFACE CONNECTION

JB1	SIGNAL	PARAMETERS
1	Power Ground	Power ground
2	Reset/HV Enable	Floating, GND=Reset/enable
3	Internal interlock	+24Vdc at Open, <25mA at Closed
4	External Interlock Return	Return for Interlock
5	Current Monitor	0~+10Vdc=0 to 100% Rated Output, Zout=1kΩ, 1%
6	Voltage Monitor	0~+10Vdc=0 to 100% Rated Output, Zout=1kΩ, 1%
7	+10Vdc Output Reference	+10Vdc @ 1mA
8	Remote Current Program In	0~+10Vdc =0 to 100% Rated Output, Zin=1MΩ
9	Local Current Program Out	0~+10Vdc=0 to 100% Rated Output, Front panel potentiometer
10	Remote Voltage Program In	0~+10Vdc =0 to 100% Rated Output, Zin=1MΩ
11	Local Voltage Program Out	0~+10Vdc =0 to 100% Rated Output, Zin=1MΩ
12	Remote Power Program In	+24Vdc@open, 25mA@closed
13	Remote HV On	Remote power on return
14	Remote Filament Off	+15Vdc@open, Connect to Pin15 locally, Filament off
15	Remote Filament Off/ Filament On common	HV off/HV on common
16	Remote Filament On	+15Vdc@open, Connect to Pin15 locally, Filament on.
17	Filament Off indicator	Low level=Filament off
18	Filament On indicator	Low level=Filament on
19	Power GND	Power GND
20	+24Vdc Output	+24Vdc @ 100mA, Maximum
21	N/C	N/C
22	Big and small filament	Optional
23	N/C	N/C
24	Interlock closed indicator	Open collector, low level+interlock closed.
25	N/C	N/C
26	N/C	N/C
27	Filament current indicator	0~+10Vdc=0~100% rated output, Zout=1kW, 1%
28	N/C	N/C
29	Power alarm	Open collector, Low level=Power alarm
30	Overvoltage alarm	Open collector, Low level=Overvoltage alarm
31	Overcurrent alarm	Open collector, Low level=Overcurrent alarm
32	System alarm	Open collector, Low level=system alarm
33	Error adjustment alarm	Open collector, Low level=Error adjustment alarm
34	Arc alarm	Open collector, Low level=Arc alarm
35	Overtemperature alarm	Open collector, Low level=Overtemperature alarm
36	AC alarm	Open collector, Low level=AC alarm
37	Interlock GND	+15Vdc@open, Interlock closed connect to GND
38	N/C	N/C
39	Local filament current rated output	0~+10Vdc=0 to 100% Rated Output, Front panel potentiometer
40	Alarm indicating collector pull-up voltage	Connect to pin44 or pin45 optional
41	Filament current rated input	0~+10Vdc = 0~100% rated output, Zin=10MW
42	N/C	N/C
43	N/C	N/C
44	+5Vdc input	+5Vdc @ 100mA, Maximum
45	+15Vdc output	+15Vdc @ 100mA, Maximum
46	-15Vdc output	-15Vdc @ 10mA, Maximum
47	N/C	N/C
48	N/C	N/C
49	N/C	N/C
50	Power GND	Power GND

DIMENSIONS

DIMENSIONS: in.[mm]

