

SYSTEM POWER SUPPLY - SPS

- MULTI CHANNELS UPTO SIX WITH FIVE TYPE OF ALL FLOATING UNITS - CASCADABLE FOR OUTPUT VOLTAGE EXTENSION
- 18BIT DAC CALIBRATED FOR VOLTAGE SET AND 17BIT DAC CALIBRATED FOR CURRENT LIMIT
- OUTPUT KELVIN DESIGN TO ENSURE LOAD REGULATION - ALLOWABLE VOLTAGE DROP BETWEEN OUTPUT AND SENSE <= 1.0V
- FAST RAMPUP (< 10mS CL <=50u 0 → 99% OF FS) WHEN CONTROL THROUGH INTERFACE
- USB INTERFACE WITH PC - ISOLATED RS232C FOR FULL SETTING & MEASURE
- UNITS AVAILABLE
 - SETTING STEP : 10mV/1mA BY PANEL 1mV/0.5mA THROUGH INTERFACE
 - VOLTAGE MEASURE RESOLUTION : 10mV
 - CURRENT MEASURE RESOLUTION : 1mA WHEN FULL SCALE RANGE 100uA WHEN EXTENDED RANGE

UNIT	OUTPUT SET RANGE		CURRENT MEASURE		UNIT	OUTPUT SET RANGE		CURRENT MEASURE	
	VOLTAGE	LIMIT	FULL SCALE	EXTENDED		VOLTAGE	LIMIT	FULL SCALE	EXTENDED
8V3R6P	0 - 8.16 V	1 - 3680 mA	0 - 3678 mA	0 - 409.2 mA	32V1P	0 - 32.6 V	1 - 1022 mA	0 - 1020 mA	0 - 102.0 mA
20V2P	0 - 20.4 V	1 - 2044 mA	0 - 2042 mA	0 - 204.2 mA	32V1N	0 - -32.6 V	1 - 1022 mA	0 - 1020 mA	0 - 102.0 mA
20V2N	0 - -20.4 V	1 - 2044 mA	0 - 2042 mA	0 - 204.2 mA					

- ACCURACY
 - 20V2P UNIT AS AN EXAMPLE (TA:25±5°C AC:100±10V)
 - VOLTAGE SET : 0.1% OF SETTING + 2 mV
 - CURRENT LIMIT SET : 1.0% OF SETTING + 0.5mA
 - VOLTAGE MEASURE : 0.1% OF READING + 20 mV
 - CURRENT MEASURE : 0.2% OF READING + 2 mA
 - 0.2% OF READING + 0.2mA
 - 0V - FS
 - 1mA - FS
 - FS RANGE
 - EXTENDED RANGE
- PROTECTION
 - OVER , UNDER AND ABNORMAL OUTPUT VOLTAGE
 - OUTPUT CURRENT LIMIT
 - OVER TEMPERATURE
- AC POWER/OPERATING TEMP.
 - 90 - 110V 5 - 40 °C
- DIMENSION
 - H147mm D280mm W210mm : 2 UNITS
 - W260mm : 3 UNITS W320 : 4UNITS W370mm : 5 UNITS W430mm : 6 UNITS

POWER SUPPLY BENCH MARKING

REFERENCE TO PRODUCT DATA SHEET

SIMILAR PRODUCT	MODEL		COMPARABLE OUTPUT		
	EW	SPS0228	8V 3.6A	20V 2A	32V 1.0A
	AGILENT	E364XA	8V 3A	20V 1.5A	35V 1.4A
	TEXIO	PW-A	8V 2A	18V 2A	36V 1.0A

BEST RESOLUTION	MODEL	VOLTAGE SET	CURRENT LIMIT SET
	SPS0228	1 mV	0.5 mA
	E364XA	< 2 mV	< 1 mA
	PW-A	0.1 mV	1 mA

ACCURACY

MODEL	VOLTAGE SET			CURRENT LIMIT SET			VOLTAGE MEASURE				CURRENT MEASURE		
	STEP	FS:8V	FS > 8V	STEP	FS:8V	FS > 8V	RESOL.	FS:8V	FS:20V	FS:32V	RESOL.	FS:8V	FS > 8V
SPS0228	10mV	0.1% + 1 mV	0.1% + 2 mV	1mA	1.0% + 0.5 mA		10mV	0.1% + 8 mV	0.1% + 20 mV	0.1% + 40 mV	1mA	0.2% + 4 mA	0.2% + 2 mA
E364XA	< 5mV	0.05% + 10 mV	0.1% + 25 mV	< 1mA	0.2% + 10 mA		< 2mV	0.05% + 5 mV	0.1% + 25 mV		< 1mA	0.15% + 10 mA	0.15% + 5 mA
PW-A	1mV/10mV	?		1mA	?		?	0.5% + 5 mV	0.5% + 10 mV		?	1.0% + 5 mA	

LINE REULATION			LOAD REGULATION			TC		NOISE	
MODEL	VOLTAGE SET	CURRENT LIMIT SET	VOLTAGE SET	CURRENT LIMIT SET	VOLTAGE SET	CURRENT LIMIT SET	FS:8V	FS<=40V	
SPS0228	0.5mV	0.5mA	2mV	1mA	60 PPM	100 PPM	0.5mVrms	2mVrms	
E364XA	0.01% + 3mV	0.01% + 0.25mA	0.01% + 3mV	0.01% + 0.25mA	100PPM	200 PPM	0.5mVrms	5mVrms	
PW-A	1mV	2mA	2mV	5mA	60 PPM	150 PPM	0.5mVrms		

BEST SPEED	
MODEL	VOLTAGE SET
SPS0228	< 10mS CL<=50u
E364XA	?
PW-A	< 90mS CL:?

FUNCTIONALITY									
MODEL	I MEASURE RANGE	KELVIN	CASCADING	NO OF CH	INTERFACE	TRACKING	OUTPUT DELAY	KEY LOCK	
SPS0228	TWO RANGE	YES	YES	1CH UP TO 6 CH	USB	ONLY T/I	ONLY T/I	ONLY T/I	
E364XA	SINGLE RANGE	YES	NONE	1CH OR 2CH	232C, GPIB	ONLY T/I	NO	?	
PW-A	SINGLE RANGE	LIMITED MODULE	LIMITED MODULE	2CH , 3CH , 4CH	USB,232C,GPIB	PANEL or T/I	PANEL or T/I	PANEL or T/I	

#1 T/I : THROUGH INTERFACE

CAPACITIVE LOADING #2		
MODEL	FS : 8V	FS > 8V
SPS0228	< 12000u:SM < 300u:FM	< 6000u:SM < 100u:FM
E364XA	?	?
PW-A	?	?

PRICE							
MODEL	2CH MODEL			3CH MODEL			
SPS	8V/20V UNIT	8V3.6A 20V2A	80KYEN	8V/20V/32V UNIT	8V3.6A 20V2A 32V1A	100KYEN	
E364XA	E3646A	8V3A 20V1.5A	110KYEN	NONE IN E364XA SERIES			
PW-A	PW16-5ADP	6V3A 16V 5A	121KYEN	PW18-2ATP	8V2A 18V2A 36V1A	135KYEN	

#2 SPS : SPEED MODE SWITCHABLE SM:SLOW FM:FAST THROUGH INTERFACE WHILE FIXED TO SM WHEN PANEL ACCESS







