

Universal Test System

Specifications



Binary outputs

Number	4
Type	Potential free relay contacts, software controlled
Break capacity	ac Vmax: 300Vac/Imax: 8A /Pmax: 2000VA
Break capacity	dc Vmax: 300Vdc /Imax: 8A/Pmax: 150W

Auxiliary dc supply

Voltage range	0~300V
Power	88W at 110V , 110W at 220V , 110W at 300V
Accuracy	error <0.1% rg. typ. (<0.5% rg. guar.)

DC voltage measuring inputs

Measuring range	0~±10V
Accuracy	error <0.02% rg. typ. (<0.05% rg. guar.)
Input impedance	100KΩ

DC current measuring inputs

Measuring range	0~±20mA
Accuracy error	<0.02% rg. typ. (<0.05% rg. guar.)
Input impedance	50Ω

Low level outputs

Setting range	12×0~10Vpk
Max.output current	1mA
Accuracy	error < 0.025 % typ. (<0.07 % guar.) at 1~10Vpk
Resolution	250μV
Distortion(THD+N)	< 0.05 % typ. (<0.1 % guar.)
Connection	14 pin combination socket

Power supply

Nominal input voltage	110~240Vac
Permissible input voltage	90~260Vac
Nominal frequency	50/60Hz
Permissible frequency	45~65Hz

Environmental conditions

Operation temperature	0 ~+50°C
Storage temperature	-25~+70°C
Relative humidity	5~95% non - condensing
EMC (Emission)	IEC61000-3-2/3
EMC (Immunity)	IEC61000-4-2/3/4/5/6/11
Safety	IEC 61010-1

Others

PC connection	Ethernet, 10M/100M
Low level outputs interface	Circular connector
GPS/IRIG-B interface	Circular connector
IEC61850 Goose and sampled values	Optical interface (Optional)
Ground Socket (earth)	4mm banana socket
Weight	12kg without control panel, 13.6kg with control panel
Dimensions	390 × 287 × 194 mm (W × H × D)

Voltage generators

Setting range

4-phase ac(L-N)	4×0~300V
1-phase ac(L-L)	1×0~600V
dc (L-N)	4×0~300V

Power

4-phase ac(L-N)	4×85VA at 300V
1-phase ac(L-L)	1×170 VA at 600V (two generators in series)
dc (L-N)	4×100 W at ±300 V

Accuracy error	< 0.08 % rd. + 0.02 % rg. guar., at 0~300 V
	< 0.02 % rd. + 0.01 % rg. typ., at 0~300 V

Ranges	300V
Resolution	10mV
Distortion	< 0.05 % typ. (<0.1 % guar.)

Current generators

Setting range

6-phase AC(L-N)	6×0~15A
3-phase AC(L-N)	3×0~30A
1-phase AC(3L-3L)	1×0~30A (10A/Phase)
dc(L-N)	3×0~10A
dc(3L-N)	1×0~30A

power

6-phase AC(L-N)	6×105VA at 15A
3-phase AC(L-N)	3×210VA at 30A
1-phase AC(L-L)	1×420VA at 30A
dc(L-N)	3×100W at 10A
dc(3L-N)	1×300W at 30A

Max compliance voltage(L-N)(L-L)	10Vpk/20Vpk
Accuracy error	< 0.08 % rd . + 0.02 % rg. guar., at 0~15A
	< 0.02 % rd . + 0.01 % rg. typ., at 0~15A

Ranges	15A or 30A
Resolution	1mA
Distortion	< 0.05 % typ. (<0.1 % guar.)

General

Frequency

Sine signal	1 ~1000Hz
Transient signal	dc~10.0 kHz

Accuracy	±1ppm
Resolution	0.001 Hz

Phase

Angle range	-360°~+360°
Accuracy	<0.05° typ., <0.1° guar. at 50/60Hz
Resolution	±0.001°

Binary inputs

Number	8
Input characteristics	0-400Vdc or ac (peak) with adjustable threshold or potential free

T ime resolution	50μs
Max. measuring time	infinite
Debounce/Deglintch time	0~25ms
Counting function	< 3kHz at pulse width>150 μs

