

POM2-6143

Universal Test System

Specifications



Binary outputs, relay

Number	4 (1-4)
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

Binary outputs, semiconductor

Number	4 (5-8)
Type	semiconductor
Break capacity	Vmax: 300Vdc /Imax: 0.5A /Pmax: 150W
Update rate	100µs
Imax	0.5A

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	14.5kg without control panel, 16kg with control panel
Dimensions	390x287x214mm(WxDxH)

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)	4×75VA typ., at 300V 4×50VA guar., at 300V
3-phase ac (L-N)	3×100VA typ., at 300V 3×85VA guar., at 300V

1-phase ac (L-L)

1×200VA typ., at 600V 1×170VA guar., at 600V

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 (2L-N)	3×0~30A

1-phase AC (3L-3L)

1×0~30A(10A/Phase)

1-phase AC(6L-N)

1×0~90A

dc (L-N)

6×0~10A

dc (6L-N)

1×0~60A

power

6-phase AC(L-N)	6×105VA at 15A
3-phase AC(2L-N)	3×210VA at 30A
1-phase AC(3L-3L)	1×420VA at 30A

dc(L-N)

6×100W at 10A

dc(6L-N)

600W at 60A

Max compliance

10Vpk/20Vpk

voltage(L-N)(L-L)

< 0.08 % rd. + 0.02 % rg. guar., at 0~15A < 0.02 % rd. + 0.01 % rg. typ., at 0~15A

Accuracy error

< 0.05 % typ. (< 0.1 % guar.)

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
-----------------------	--

Time resolution

50µs

Max. measuring time

infinite

Debounce/Deglitch time

0~25ms

Counting function

< 3kHz at pulse width>150 µs

