

POM2-3243 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, 100W at 300V
Accuracy	error <0.1% rg. typ. (<0.5% rg. guar.)

DC voltage measuring inputs(Optional)

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

DC current measuring inputs(Optional)

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

Low level outputs(Optional)

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(E&I)	EN/IEC 61326-1
Safety	EN/IEC 61010-1/1-12/2-030 EN/IEC 60255-25/27
Others	FCC Part 15:Sub B
	ECS-001:2006 LVDEU ZEK 01.4 -08/11/11

Others

PC connection	Ethernet, 10M/100M
Low level outputs interface (Optional)	Circular connector
GPS/IRIG-B interface	Circular connector
IEC61850 Goose	Ethernet interface (Optional)
Ground Socket (earth)	4mm banana socket
Weight	13kg
Dimensions (W × H × D)	390mm×287mm×194mm

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
dc (L-L)	1×±0~600V

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

3-phase AC(L-N)	3×0~20A
1-phase AC(3L-N)	1×0~60A
1-phase AC(L-L)	1×0~20A
dc(L-N)	3×0~10A
dc(3L-N)	1×0~30A

power

3-phase AC(L-N)	3×140VA at 20A
1-phase AC (L-L)	1×280VA at 20A
1-phase AC(3L-N)	1×280VA at 60A
dc(L-N)	3×100W at 10A
dc(3L-N)	1×300W at 30A

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

	20A
Resolution	1mA
Distortion	<0.05 % typ. (<0.1 % guar.)

General

Frequency

Sine signal	DC, 0.001Hz~1000Hz
Transient signal	DC~10.0 kHz
Accuracy	±0.3ppm
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
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Max. measuring time	infinite
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Debounce/Deglintch time	0~25ms
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Counting function	<3kHz at pulse width>150µs
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