



Datasheet



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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	Ethernet interface (Optional)
Ground Socket (earth)	4mm banana socket
Weight	16.5kg
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 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
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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	±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

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



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