PW460
Universal Test System

Specifications

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.
	error < 0.02 % rd.+0.01 % rg. typ.
Ranges	300V
Resolution	10mV for 300Vac
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(6L-N)	1×0~90A
dc(L-N)	6×0~±10A
dc(6L-N)	1×0~±60A
Power	
6−phase AC(L−N)	6×150VA at 15A
3−phase AC(2L−N)	3×240VA at 30A
1−phase AC(6L−N)	1×450VA at 90A
1−phase AC(L−L)	1×450VA at 30A
Max compliance	
Voltage(L−N) (L−L)	15Vpk/32Vpk
dc(L−N)	6×100W at ±10A
dc(6L−N)	1×540W at ±60A
Accuracy	error < 0.08 % rd.+0.02 % rg. guar.
	error < 0.02 % rd.+0.01 % rg. typ.
Ranges	15A or 30A
Resolution	1mA
Distortion	< 0.05 % typ. (< 0.1 % guar.)

General

Frequency	
Sine signal	DC,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°

Auxiliary dc supply

Voltage range	0~300V
Power	88W at 110V, 176W at 220V, 120W at 300V
Accuracy	error < 0.1 % rg. typ. (<0.5 % rg. guar.)

Power supply

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

Binary inputs Group1

Number	8
Input characteristics	0~400Vdc threshold or potential free
Sample rate	20kHz
Time resolution	50μs
Max. measuring time	infinite
Debounce/Deglitch time	0~25ms
Counting function	< 3kHz at pulse width>150μs
Galvanic isolation	8 galvaincally isolated

Binary inputs Group2

Number	4
Input characteristics	0~+5Vdc or dry contact
Sample rate	25kHz
Time resolution	40μs
Max. measuring time	infinite
Debounce/Deglitch time	0~25ms
Max. counting frequency	25kHz
Pulse width	> 3μs
Threshold voltage	2V
Voltage hysteresis	0.8V
Max. input voltage	+5V

Binary outputs, semiconductor

Number	4 (rear side)
Type	semiconductor
Break capacity dc	Vmax: 300Vdc /Imax: 0.5A /Pmax: 150W
Update rate	100μs
Imax	0.5A

Binary outputs, relay

Number	4 (front side)
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

DC voltage measuring input

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

DC current measuring input

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

In-built monitoring and recording

Monitoring	currents and voltage outputs
Recording	analog outputs, binary inputs/outputs status
Mode	real time monitoring, no external wiring is required
Recording length	16s

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	19 pin combination socket (rear side)

IEC61850 upgrade

Interpretation hardware is in-built. Please contact the supplier for options to activate the IEC61850 software support function

Environmental conditions

Operation temperature	0 ~+50°C
Storage temperature	-25~+70°C
Relative humidity	5~95% non - condensing
EMC (Emission)	IEC-61000-3-2/3
EMC (Immunity)	IEC 61000-4-2/3/4/5/6/11
Safety	IEC 61010-1

Others

PC connection	Ethernet, 10M/100M
External amplifier interface	Circular connector
Current booster interface	Circular connector
GPS interface	DB9/TTL
Ground Socket (earth)	4 mm banana socket; front side
Weight	20kg
Dimensions (W x H x D)	360mm× 157mm× 367 mm

subject to modification

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