



# PW636i

## 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., at 0~300 V error < 0.03 % rd.+0.01 % rg. typ., at 0~300 V
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#### Ranges

300V

Resolution 10mV for 300Vac

Distortion < 0.02 % typ., (< 0.05% guar.)

### Current generators

#### Setting range

6-phase AC (L-N)	6×0~32A
3-phase AC (2L-N)	3×0~64A
1-phase AC (6L-N)	1×0~180A
dc (6L-N)	1×0~±180A

#### Power

6-phase AC (L-N)	6×450VA typ. at 32A 6×400VA guar. at 32A
3-phase AC (2L-N)	3×800VA typ. at 64A 3×700VA guar. at 64A
1-phase AC (6L-N)	1×1200VA typ. at 180A 1×1000VA guar. at 180A
1-phase DC (6L-N)	1×1400W typ. at 180A 1×1000W guar. at 180A

#### Max compliance

Voltage (L-N) (L-L) 21Vpk/42Vpk

Accuracy	error < 0.15 % rd.+0.05 % rg. guar., at 0~32A error < 0.05 % rd.+0.02 % rg. typ., at 0~32A
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#### Ranges

32A

Resolution 1mA

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

### General

#### Frequency

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

Accuracy ±0.3ppm

Resolution <5μ Hz

#### Phase

Angle range -360°~+360°

Accuracy <0.02°typ., <0.1° guar.at 50/60Hz

Resolution ±0.001°

### Auxiliary dc supply

Voltage range 0~300V

Power 88W at 110V, 176W at

220V, 90W at 300V

Accuracy error < 0.1 % rg. typ. (<0.5 % rg. guar.)

### Power supply

Nominal input voltage 110~240Vac

Permissible tolerance 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 galvanically 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 inputs

Measuring range 0~±10V

Accuracy error < 0.02% rg. typ. (< 0.05% rg. guar.)

±0.001%rd+0.005%rg

Distortion 0.0001 Input impedance 500KΩ

### DC current measuring inputs

Measuring range 0~±20mA

Accuracy error < 0.02% rg. typ. (< 0.05% rg. guar.)

±0.001%rd+0.005%rg

Distortion 0.0001 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 Goose function(Optional)

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

### 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 EN/IEC 61000-3-2/3

EN/IEC61000-4-2/3/4/5/6/8/11/18

Environment EN/IEC 60068-2-1/2/3/6/27

Safety EN/IEC 61010-1/1-12-2-030 EN/IEC 60255-25/27

FCC Part 15:Sub B

Others ECS-001:2006 LVD EU

Developed and manufactured under an ISO 9001: 2015 registered system

### Others

PC connection Ethernet, 10M/100M ; USB optional

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) 360 mm× 157mm× 427 mm