



## PCR-W Intelligent AC Test Power Supply

### Description:

PCR-W series intelligent AC test dedicated power supply is with high quality, it is also with good reliability, high input power factor, high purity of output voltage waveform, low THD of voltage, and light weight, as well as compatible with power supplies all over the world, besides it is a modular design which is convenient for power expansion, etc.

### Main characteristics:

- ◆ Input power factor correction
- ◆ Compatible with power supplies globally, three output mode: AC, DC, AC and DC
- ◆ Harmonic analysis function, low harmonic distortion, fast response
- ◆ Editable waveform (waveform library), editable phase
- ◆ 3 $\phi$  power supply composed of three 1  $\phi$  power supplies (only interface reserved)
- ◆ Can be used in parallel (only Interface reserved)
- ◆ Synchronous input/output port
- ◆ Synchronous signal output: 5V level
- ◆ PASS、FAIL、TEST-IN PROCESS Remote output signal: FAIL. PASS, TEST-IN PROCESS

- ◆ Remote sampling
- ◆ Source meter integration, voltage true effective value (Vrms), current true effective value (Irms), power (P) and power factor (PF) measurement and display Achieve the measurement and display of Vrms, Irms, P and PF
- ◆ Analog input (waveform/amplitude control): DC: -5V~+5V;AC:0~5V
- ◆ Protection function: output short circuit, over current, over voltage, over power, over heat
- ◆ Communication function: RS232/485/ ethernet optional

Mode	PCR1000	PCR2000	PCR4000	PCR8000	PCR12000
I	W	W	W	W	W
<b>Rated input</b>					
Volta ge	AC 85V~260V				
Frequ ency	1Φ,50 Hz /60Hz				
Powe r factor	0.94				
<b>Rated output AC mode</b>					
Volta ge	1V~150V;2V~300V(150V/300VRange)				
Maxi mum current	10A/5A (150V/300 VRange)	20A/10A (150V/300 VRange)	40A/20A(1 50V/300VRang e)	80A/40A (150V/300 VRange)	120A/60A (150V/300 VRange)
phase	1				
Powe r capacity	1000VA	2000VA	4000VA	8000VA	12000VA
Peak current	4 times than maximum current(RMS)				
Frequ	1.0Hz~500.0Hz				

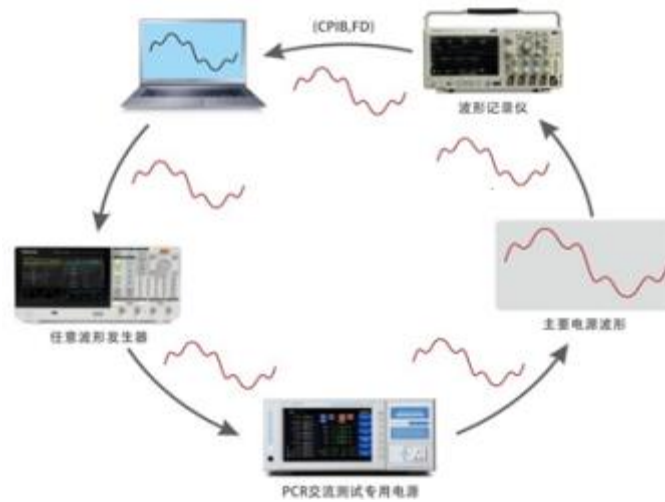
ency					
<b>Rated Output DC mode ,AC+DC mode</b>					
Volta ge	1.4~212V/2.8~424V(150VRange/300VRange)				
Maxi mum current	5.0A/2.5A( 150V/300VRang e)	10A/5A(1 50V/300VRang e)	20A/10A(1 50V/300VRang e)	40A/20A(1 50V/300VRang e)	60A/30A(1 50V/300VRang e)
Output Power	500VA	1000VA	2000VA	4000VA	6000VA
Volta ge output stability	$\leq 0.1\%$				
Volta ge output accuracy	$\leq 1\% \text{setting} + 0.2V$				
frequ ency stability	$\leq 0.03\% \text{Reading} + 0.1V$				
Effici ency of output frequency	$\leq 0.016\% \text{setting} + 0.01Hz$				
THD	$\leq 0.2\% (40.0Hz \sim 65.0Hz); \leq 0.3\% (65.1Hz \sim 500.0Hz)$				
Trans ient reaction time	$< 60\mu s$				
Load	$\leq 0.2\% + 0.2V$				

influence						
Power voltage influence		$\leq 0.1\%$				
Power efficiency		$\geq 75\%$				
<b>Measurement</b>						
Voltage	Range	75V/150V/300V				
	Resolution	0.1V				
	Basic accuracy	$\pm(0.2\% \text{ Reading} + 0.2\% \text{ Range} + 1 \text{ digit})$				
Current	Range	0.5A/1A/2A /5A/10A	1A/2A/5A /10A /20A	2A/5A/10A /20A/40A	5A/10A/20 A/40A/80A	7A/15A/30 A/60A/120A
	Resolution	0.001A(0~9.999A);0.01A(10A~99.99A)				
	Basic accuracy	$\pm(0.2\% \text{ Reading} + 0.2\% \text{ Range} + 1 \text{ digit})$				
	Range	0.1W(0.1W~999.9W);1W(more than 1000W)				

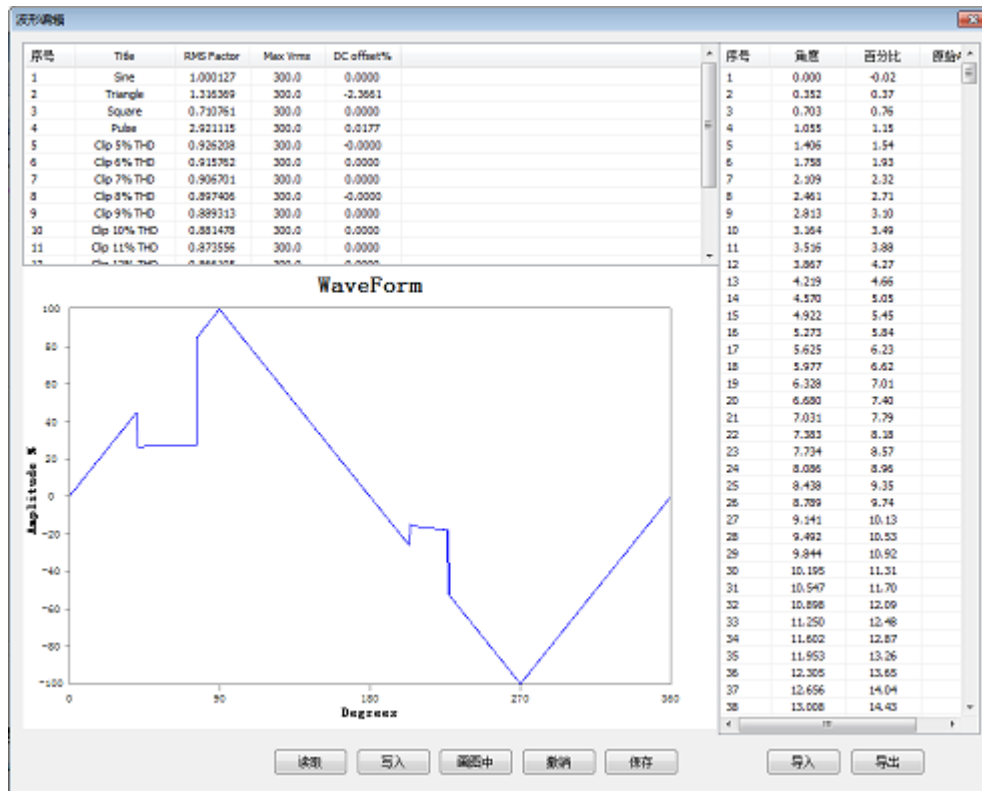
r	owe esolut ion	
	Basic accuracy	$\pm(0.3\% \text{Reading} + 0.2\% \text{Range} + 1 \text{Digit})$

◆ Limit test (support a full range of protection features , easy to deal with engineers in the test of all kinds of limit test;

◆ Analog electrical waveform distortion



◆ Provides waveform free edition list and direct output



◆ Simulate power supply voltage variation, interruption and ect;

◆ Simulation test for lighting product dimming compatibility

PCR power supply was used to simulate various dimmers, and equip with LFA-3000 flicker tester to meet the requirements of IEC 61547 and IEC63158.



◆ Motor industry application

1)Energy efficiency test

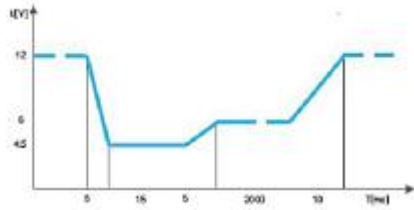
2) Three-phase motor performance test

3) Surge current test

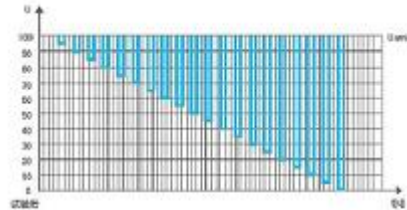
4) Speed regulation simulation

◆ Automotive electronics industry applications

DC current can be programmable and output ,there are standard waveform saved according to standards in automotive electronics industry,easy for operation.



标准：DIN40839  
测试项目：汽车电子的引擎启动测试



标准：ISO16750-2  
测试项目：汽车电子的复位性能测试

### ◆ Performance verification of photovoltaic one step machine

PCR power supply can output AC, DC, AC/DC combined, meet the need of alternating current and dc switching test product performance verification.

AC+DC

