

6600 Series Programmable AC Power Source



The 6600 series programmable AC power source configures with PWM direct coupling output technologies to provide highly stable power. With various interfaces to choose from, it is simple to integrate with PC and build a remote operation system.

Key Highlight

- DC output up to 2.5kW (optional).
- 9.8-inch panel displays all testing data at a glance.
- Automatic cycle run function efficiently looping various tests.
- EEC proprietary Over Current Fold (OCF) function automatically adjust voltages, maintaining current for activating the DUT.
- Integrated with PWM direct coupling output technologies to deliver up to 80% output efficiencies.
- Compact size design: 5kVA with height only 222mm, which occupied less space for the test.
- Provided with starting & ending phase angle settings for output waveforms as well as voltage spikes & dips wave simulation.
- Inrush current up to 4 times of the rated current, allowing users to activate high inrush current loads (motor, compressor, etc.) without additional power source capacity and thus minimize the equipment costs.
- Allowing users to adjust voltage or frequency instantly without shutting down the output and thus minimize the time needed for the tests.
- The rapid transient reaction allows the waveforms to restore within 400 μ s whenever loads are either added or removed instantly.

Protection



Over Current Protection



Over Voltage Protection



Over Power Protection



Over Temperature Protection



Short Current Circuit

Safety and Productivity Features



OC Fold



Continuous



Angle Setting



V Sense (optional)

Available Interface



USB



RS-232



Ethernet (optional)



GPIB (optional)

	AC Output	DC Output	Programmable	Single-phase Input	Single-phase Output
6605	✓	Optional	✓	✓	✓
6610	✓	Optional	✓	✓	✓
6620	✓	Optional	✓	✓	✓
6630	✓	Optional	✓	✓	✓
6650	✓	Optional	✓	✓	✓

6600 Series Specifications										
MODEL	6605		6610		6620		6630		6650	
AC OUTPUT										
Phase			1Ø							
Power Rating			500VA	1kVA	2kVA	3kVA	5kVA ¹			
Voltage	Range		0 - 300V							
	Resolution		0.1 V							
	Accuracy		±(1% of setting + 2 counts)				±(1% of setting + 5 counts)			
Max. Current (r.m.s) ²	0 - 150V		4.6A	9.2A	18.4A	27.6A	46.0A			
	0 - 300V		2.3A	4.6A	9.2A	13.8A	23.0A			
Frequency	Range		40 - 500Hz Full Range Adjust							
	Resolution		0.1Hz at 40.0 - 99.9 Hz, 1Hz at 100 - 500Hz							
	Accuracy		±0.03% of setting							
Total Harmonic Distortion (THD)			< 0.3% at 110/220V & 50/60Hz (Resistive Load)							
Inrush Current			4 times rated Current(r.m.s)							
Crest Factor			3 times rated Current(r.m.s)							
Line Regulation			± 0.1V							
Load Regulation			±(0.5% of output + 0.5V) at Resistive Load							
DC OUTPUT (Optional)										
Power rating			250W	500W	1kW	1.5kW	2.5kW			
Voltage	Range		0-200/0-400V							
	Resolution		0.1V							
	Accuracy		±(1% of reading + 2 counts)				±(1% of reading + 5 counts)			
Max. Current (r.m.s)	0 - 200V		2.3A	4.6A	9.2A	13.8A	23.0A			
	0 - 400V		1.15A	2.3A	4.6A	6.9A	11.5A			
Ripple and Noise (r.m.s)	Range	L	< 250mV				< 350mV			
		H	< 400mV				< 550mV			
Ripple and Noise (p-p)			< 2Vp-p				< 3Vp-p			
Line Regulation			± 0.1V							
Load Regulation			±(0.5% of output + 0.5V) at Resistive Load							

MODEL	6605	6610	6620	6630	6650		
INPUT							
Phase	1Ø						
Voltage	110/220Vac±10%		220Vac±10%				
Max. Current	10/5A	20/10A	20A	30A	50A		
Frequency	47 - 63Hz						
Power Factor	0.7						
MEASUREMENT							
Voltage (AC & DC)	Range	0.0 - 400.0V					
	Resolution	0.1V					
	Accuracy	±(1% of reading + 2 counts) at Voltage > 5 V		±(1% of reading + 5 counts) at Voltage > 5V			
Current	Range (AC)	L	0.005 - 0.600A	0.005 - 1.200A	0.005 - 2.400A	0.005 - 3.600A	-
		H	0.50 - 6.50A	1.00 - 13.00A	2.00 - 26.00A	3.00 - 39.00A	0.00 - 65.00A
	Range (DC)	L	0.010 - 0.600A	0.010 - 1.200A	0.010 - 2.400A	0.010 - 3.600A	-
		H	0.50 - 6.50A	1.00 - 13.00A	2.00 - 26.00A	3.00 - 39.00A	0.05 - 65.00A
	Resolution ³	L	0.001A				
		H	0.01A				
	Accuracy (AC) ⁴	L	±(1% of reading + 5 counts)			±(1% of reading + 5 counts) ⁵ ±(2% of reading + 5 counts) ⁶	-
		H	±(1% of reading + 5 counts)				
	Accuracy (DC) ⁴	L	±(1% of reading + 5 counts)				-
		H	±(1% of reading + 5 counts)				
Frequency	Range	0.0 - 500.0Hz					
	Resolution	0.1Hz					
	Accuracy	± 0.1Hz					
Power (AC & DC)	Range	L	0.0W - 60.0W	0.0W - 120.0W	0.0W - 240.0W	0.0W - 360W	-
		H	50W - 650W	100W - 1300W	200W - 2600W	300 - 3900W	0 - 6500W
	Resolution	L	0.1W				
		H	1W				
	Accuracy (AC) ⁴	L	±(2% of reading + 15 counts)		±(2% of reading + 30 counts)	±(2% of reading + 15 counts) ⁵ ±(2% of reading + 15 counts) ⁶	-
		H	±(2% of reading + 5 counts)		±(2% of reading + 10 counts)	±(2% of reading + 5 counts)	
	Accuracy (DC) ⁴	L	±(2% of reading + 5 counts)				-
		H	±(2% of reading + 5 counts)				

MODEL	6605	6610	6620	6630	6650
GENERAL					
Surge/Drop	SD-Volt : 0.0 - 300.0V, Resolution : 0.1V SD-Site : 0 - 20ms at SD-Cont. : ON, 0 - 99ms at SD-Cont. : OFF, Resolution : 1ms SD-Time : 0 - 20ms at SD-Cont. : ON, 0 - 99ms at SD-Cont. : OFF, Resolution : 1ms SD-Cont. : ON/OFF				
Remote Input Signal Interface (Optional)	Test, Reset, Recall memory 1 through 7				
Remote Output Signal	Pass, Fail, Test-in Process				
I/P Terminal	Inlet		Terminal		
Memory	50 memories, 9 steps/memory				
Sync Output Signal	DC Level 5 V, Between the sync signal and the output voltage will be 0.5ms time difference				
Display	240 x 64 dot resolution Monographic LCD/Contrast 9 Levels 1 - 9				
Protection	OCP, OVP, OPP, OTP, LVP, Short Circuit ; Alarm and shutdown				
Interface ⁷	Standard USB & RS232, Optional GPIB, Ethernet, PLC Remote Input Card				
Op./Non-Op. Temp./Humidity	0 to 40°C/-40 to 75°C/20 to 80%RH				
Dimension (W x H x D), mm ⁸	430 x 89 (111.5) x 400	430 x 89 (111.5) x 400	430 x 89 (111.5) x 500	430 x 223 (245.5) x 500 (528)	430 x 223 (245.5) x 500 (530)
Weight	16.5kg	19.5kg	31.5kg	57kg	65kg

INBOX ACCESSORIES

Power Cable (10A) for 6605; Power Cable (15A) for 6610; 1177 Input power cable for 6620; 1224 USB Cable*1

*Product specifications are subject to change without notice

1. PF_≤0.8 can work continuity.
2. Maximum current when output voltage at 110/220V.
3. a. When output frequency ≥100Hz & ≤ 500Hz & N-G short, the current meter guarantee minimum current from 0.01A.
b. When output frequency ≥ 500Hz & N-G short, the current meter guarantee minimum current from 0.02A.
4. At voltage > 5V.
5. At 40 - 100Hz.
6. At 101 - 500Hz.
7. Only one interface can be selected among PLC Remote I/P interface, RS232 & USB, Ethernet & GPIB interface card.
8. Figure in parentheses are maximum values with fixture stand.

Models

- 6605 Programmable AC Power Source 0 - 300V/40 - 500Hz (500VA)
- 6610 Programmable AC Power Source 0 - 300V/40 - 500Hz (1kVA)
- 6620 Programmable AC Power Source 0 - 300V/40 - 500Hz (2kVA)
- 6630 Programmable AC Power Source 0 - 300V/40 - 500Hz (3kVA)
- 6650 Programmable AC Power Source 0 - 300V/40 - 500Hz (5kVA)

Options

- OPT.109 Replace RS232 Interface by GPIB Interface
- OPT.612 PLC Remote I/P Interface
- OPT.629 Input Voltage 100/200Vac for 6605 & 6610
- OPT.630 Input Voltage 120/240Vac for 6605 & 6610
- OPT.631 Input Voltage 200Vac for 6620, 6630 & 6650
- OPT.632 Input Voltage 240Vac for 6620, 6630 & 6650
- OPT.633 DC Output (250W/400V) for 6605
- OPT.634 DC Output (500W/400V) for 6610
- OPT.635 DC Output (1kW/400V) for 6620
- OPT.651 DC Output (1.5kW/400V) for 6630
- OPT.652 DC Output (2.5kW/400V) for 6650
- OPT.653 External 0 - 10V control
- OPT.654 Sync Signal +5V/pulse 15ms
- OPT.663 Replace RS232 Interface by PLC Remote Interface
- OPT.666 V sensor function for 6650
- OPT.667 Suppression Input Voltage