

# TFC61 Power Source

## TFC61 Power Source in Single Phase Output

### Introduction

The TFC61 series are single phase output AC power source, output capacity from 500VA to 800kVA. Adopting PWM high frequency technology & IGBT regulation mode, the TFC61 series features constant frequency and voltage with high accuracy. The TFC61 series can be used to simulate grids of different countries, widely used in laboratories, production calibration & test and military applications.

### Features

- ✓ Full range adjustable output: 1~300V, resolution 0.1V
- ✓ Output frequency: 47-63Hz, 100Hz, 200Hz
- ✓ Fast output key for 110/220V and 50/60Hz
- ✓ High accuracy LED display for voltage, current, frequency, active power, power factor
- ✓ Fast transient response, response time no more than 2ms for 100% load and unload
- ✓ Multiple protections: OVP, OCP, OTP and OLP
- ✓ Optional: RS-232/RS-485 interface for PC remote control on output frequency and voltage
- ✓ Customized specifications and functions acceptable

### Product photo



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## Specifications

<b>Circuit mode</b>	IGBT/PWM
<b>Input</b>	1 $\phi$ 2W, 220V $\pm$ 10% or 3 $\phi$ 4W, 380V $\pm$ 10%, 50 $\pm$ 5Hz
<b>Output</b>	
Phase	1 phase
Low range	Phase voltage 1.0V-150.0V, Line voltage 1.0-260.0V
High range	Phase voltage 1.0V-300.0V, Line voltage 1.0-520.0V
Frequency	47-63Hz, 100Hz, 200Hz Fast output key for 50/60Hz
Voltage accuracy	$\pm$ 1% (110V or 220V $\pm$ 10%) $\pm$ 1.5% (other range)
Frequency stability	$\leq$ 0.1%
Voltage stability	$\pm$ 1%
Harmonic distortion	$\pm$ 2% (resistive load)
Crest factor	1.41 $\pm$ 0.10
Line regulation	$\leq$ 1%
Load regulation	$\leq$ 1%
Efficiency	$\geq$ 85%
Response time	Max. 2ms
<b>Meter &amp; Resolution</b>	
Frequency meter	4 digits LED, resolution 0.1Hz
Voltmeter	4 digits LED, resolution 0.1V
Ammeter	4 digits LED, resolution 0.001A/0.1A
Power meter	4 digits LED, resolution 0.01W/0.1kW
Power factor meter	3 digits LED, resolution 0.01
<b>Preset function</b>	Preset output voltage, output frequency and output voltage floating ratio
<b>Fast key function</b>	Fast key for output voltage switch, frequency switch, output voltage floating selection
<b>Alarm function</b>	Audible and visual alarm once protective device activated; display error code on LED
<b>Protection</b>	Fuse switch for input and output; Fast-response circuit to detect over voltage, over current, over load, over temperature and short circuit; Output will be shut down in protection mode.
<b>Cooling</b>	Cooling fan
<b>Cabinet protection grade</b>	IP2X
<b>Chassis structure</b>	Cabinet type
<b>Operation environment</b>	0 $^{\circ}$ C-40 $^{\circ}$ C, $\leq$ 90% RH(Non-condensing), Altitude: 1500 feet

## Output specifications (1 phase input)

Model		61005	6101	6102	6103	6105	6106	6110	
Output capacity		500VA	1KVA	2KVA	3KVA	5KVA	6KVA	10KVA	
Max. current	Low range (110V)	4.5A	9A	18A	27A	45A	54A	90A	
	High range (220V)	2.25A	4.5A	9A	13.5A	22.5A	27A	45A	
		DISCONTINUED							

## Output specifications (3 phase input)

Model		6115	6120	6130	6145	6160	61100	61150
Output capacity		15kVA	20kVA	30kVA	45kVA	60kVA	100kVA	150kVA
Max. current	Low range (110V)	136A	180A	270A	408A	540A	900A	1360A
	High range (220V)	68A	90A	135A	204A	270A	450A	680A

Specifications are subject to change without prior notice.

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