

AC Power Source in Single Phase Output

Introduction

The TFC61 series are single phase output AC power source, output capacity from 5kVA 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: 45-400Hz adjustable, fixed 50Hz, 60Hz, 400Hz
- ✓ 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



AC Power Source

Specifications

Circuit mode	IGBT/PWM
Output	
Phase	1 phase
Low range	Phase voltage 1.0V-150.0V
High range	Phase voltage 1.0V-300.0V
Frequency ^①	45~400Hz adjustable, fixed 50Hz, 60Hz and 400Hz Fast output key for 50/60Hz
Voltage accuracy	±1% (110V or 220V ±10%) ±1.5% (other range)
Frequency stability	≤0.1%
Voltage stability	±1%
Harmonic distortion	±2% (resistive load)
Crest factor	1.41±0.10
Line regulation	≤1%
Load regulation	≤1%
Efficiency	≥85%
Response time	Max. 2ms
Meter & Resolution	
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
Preset function	Preset output voltage, output frequency and output voltage floating ratio
Fast key function	Fast key for output voltage switch, frequency switch, output voltage floating selection
Alarm function	Audible and visual alarm once protective device activated; display error code on LED
Protection	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.
Cooling	Cooling fan
Cabinet protection grade	IP2X
Chassis structure	Cabinet type
Operation environment	0°C-40°C, ≤90% RH(Non-condensing), Altitude: 1500 feet

①Remarks: When using the AC power source at 400Hz , output capacity must be within 50% and continuous operation time cannot exceed 2 hours.

AC Power Source

Model	Capacity	Max.Current		Input	N.W (kg)	G.W. (kg)	Dimension (mm)
		Low range @110V	High range @220V				
TFC-6105	5KVA	45A	22.5A	1P 220Vac	61	75	360W*520H*500D
TFC-6106	6KVA	54A	27A	1P 220Vac	65	80	360W*520H*500D
TFC-6110	10KVA	90A	45A	1P 220Vac 3P 380Vac	105	130	430W*630H*520D
TFC-6115	15KVA	136A	68A	3P 380Vac	110	155	480W*800H*600D
TFC-6120	20KVA	182A	91A	3P 380Vac	200	260	520W*1000H*820D
TFC-6130	30KVA	272A	136A	3P 380Vac	270	330	520W*1000H*820D
TFC-6145	45KVA	410A	205A	3P 380Vac	350	410	660W*1260H*980D
TFC-6150	50KVA	454A	227A	3P 380Vac	400	460	660W*1260H*980D
TFC-6160	60KVA	546A	273A	3P 380Vac	420	480	660W*1260H*980D
TFC-6175	75KVA	682A	341A	3P 380Vac	550	650	750W*1500H*1020D
TFC-6190	90KVA	818A	409A	3P 380Vac	650	750	750W*1500H*1020D
TFC-61100	100KVA	910A	455A	3P 380Vac	670	770	750W*1500H*1020D
TFC-61120	120KVA	1090A	545A	3P 380Vac	800	920	700W*1700H*1280D
TFC-61150	150KVA	1364A	682A	3P 380Vac	850	970	700W*1700H*1280D
TFC-61180	180KVA	1636A	818A	3P 380Vac	980	1100	700W*1700H*1280D
TFC-61200	200KVA	1818A	909A	3P 380Vac	1000	1120	700W*1700H*1280D

More models are available at request.

Specifications are subject to change without prior notice.