

TFG3600E SERIES



FEATURES

- Frequency range 1 μ Hz~5MHz/10MHz/15MHz/20MHz
- 2 output channels
- 3.5-inch TFT LCD display
- Direct Digital Synthesis technology (DDS)
- Min. output amplitude 1mV (50 Ω) with good stability
- Sampling rate 100MSa/s, vertical resolution 8 bit, waveform length 1024 points
- Arbitrary waveform function
- 32 built-in waveforms and 8 user-defined arbitrary waveforms
- 40 sets save & recall for panel settings
- Modulations: FM, FSK, ASK, PSK
- Frequency sweep, amplitude sweep, burst and TTL output functions
- Over voltage, over current, short circuit and reverse voltage protections
- High speed rotary dial and keypad input
- Standard RS-232 interface for PC remote control
- Standard 200MHz external frequency counter
- Optional power amplifier

DDS Function Generator

ARBITRARY WAVEFORM, 1uHz~20MHz

SPECIFICATIONS

Model	TFG-3605E	TFG-3610E	TFG-3615E	TFG-3620E
Waveform				
Output waveform				
Vertical resolution		8 bits		
Sampling rate		100MSa/s		
Sine	Harmonic distortion	$\geq 40\text{dBc}$ (<1MHz); $\geq 35\text{dBc}$ (1~20MHz)		
	Total distortion	$\leq 1\%$ (20Hz~200kHz)		
Square	Rise/fall time	$\leq 35\text{ns}$		
	Duty cycle	1%~99%		
Frequency				
Range	Sine	1μHz~5MHz	1μHz~10MHz	1μHz~15MHz
	Square	1μHz~5MHz		
	Other	1μHz~1MHz		
Resolution		1μHz		
Accuracy		$\pm 5 \times 10^{-5}$		
Output characteristics				
Amplitude	Range	2mVpp~20Vpp (open circuit)		
	Resolution	20mVpp (amplitude>2V); 2mVpp (amplitude<2V)		
	Accuracy	$\pm(1\%+2mV_{rms})$ (open circuit, 1kHz, sine)		
	Flatness	$\pm 5\%$ (<10MHz); $\pm 10\%$ (>10MHz)		
	Output impedance	50Ω		
Offset	Range	$\pm 10\text{V}$ (open circuit, attenuation 0 dB)		
	Resolution	20mVdc		
	Accuracy	$\pm(1\%+20mVdc)$		
Sweep				
Time		100ms~900s		
Direction		Up, Down, Up-Down		
Mode		Linearity, Logarithmic		
Modulations		FM, FSK, ASK, PSK, Burst, 200MHz frequency counter, Power amplifier		
CHB output characteristics				
Output waveform		32 built-in waveforms, including Sine, Square, Triangle, Ramp, Pulse, etc.		
Vertical resolution		8 user-defined arbitrary waveforms		
Sampling rate		1024 points		
Frequency range		1μHz~1MHz; Other: 1μHz~100kHz		
Frequency resolution		1μHz		
Frequency accuracy		$\pm 1 \times 10^{-5}$		
Amplitude range		50mVpp~20Vpp (open circuit)		
Amplitude resolution		20mVpp		
Output impedance		50Ω		
General				
Interface		RS-232 interface		
Power source		AC110V/220V±10% selectable, 50/60Hz, Max. 45VA		
Accessories		Power cord x1, Operation manual x1, Software CD x1, RS-232 cable x1, BNC-BNC cable x1, Test lead x1		
Dimension (WxHxD)		260x110x385mm		
Weight		3.5kg		