

FUNCTION GENERATOR

Features

- .Excellent DDS technology
- .Programmable logical components
- .SMT technology,low sine wave distortion
- .GP-IB interface and 50Hz output interface(optional)
- .Function of storage and invoking
- .Store/recall 10 panel setting
- .Low Frequency Power Signal Generator/Frequency Counter



SG1643

Technical Data		SG1643 03/06/10/30/40/50
Main output	Output frequency	0.01Hz~3MHz(SG1643 03) 0.01Hz~6MHz(SG1643 06)
		0.01Hz~10MHz(SG1643 10) 0.01Hz~30MHz(SG1643 30)
		0.01Hz~40MHz(SG1643 40) 0.01Hz~50MHz(SG1643 50),Sine
		0.01Hz~≤10MHz,square,pulse,TTL/CMOS
		0.01Hz~100kHz,triangle.ramp
	Output amplitude	1mVp-p~10Vp-p(50Ωload) (f≤10MHz)
		1mVp-p~3Vp-p(50Ωload) (10MHz<f<30MHz)
		2mVp-p~20Vp-p(1MΩload) (f≤10MHz)
		2mVp-p~6Vp-p(1MΩload) (10MHz<f<30MHz)
	Output wave	sine,square,pulse,triangle,ramp,ladder and etc.more than 30 waveforms
	Output modulation	single frequency,sweep frequency,AM,FM,FSK,PSK,BURST
	Wave length	8~ 16000 points
	Wave accuracy	12bits
	Sampling rate	300Msa/s
Frequency resolution	10mHz	
Frequency accuracy	±0.0005%	
Amplitude resolution	1mVp-p	
Offset range	±10V	
AM modulation depth	1%~100%adjustable	
Sine wave	Harmonic distortion	-50dBC(<1MHz,>10Vp-p)
	Distortion factor	≤0.15%(<100kHz,>10Vp-p)
Square wave	Rise time	≤25ns
	SYMM.	20%~80%adjustable
Modulate signal generator	Frequency range	1Hz~1MHz
	Output wave	sine,square,pulse,triangle,ramp
	Output amplitude	0.1~6Vp-p(600Ω load)
	Phase range	0.1~360.0°
	Phase resolution	0.1°
Counter(Optional)	Frequency range	1Hz~100MHz,1Hz~1500MHz(Optional)
	Dynamic range	100mVrms~10Vrms(100KHz low pass filter;×10 attenuation)
	Frequency	10MHz
Time base	Stability	±1×10 ⁻⁶ /d,±5×10 ⁻⁶ /d
Power supply		110~127VAC±10%/220~240VAC±10%,50Hz±2Hz /60Hz±2Hz
Dimension(W×H×D)		240×90×235mm
Weight		2.5kg