

# HFIG-600 / HFIG-600-S

VHF/UHF High Power Impulse Generator



HFIG-600-S

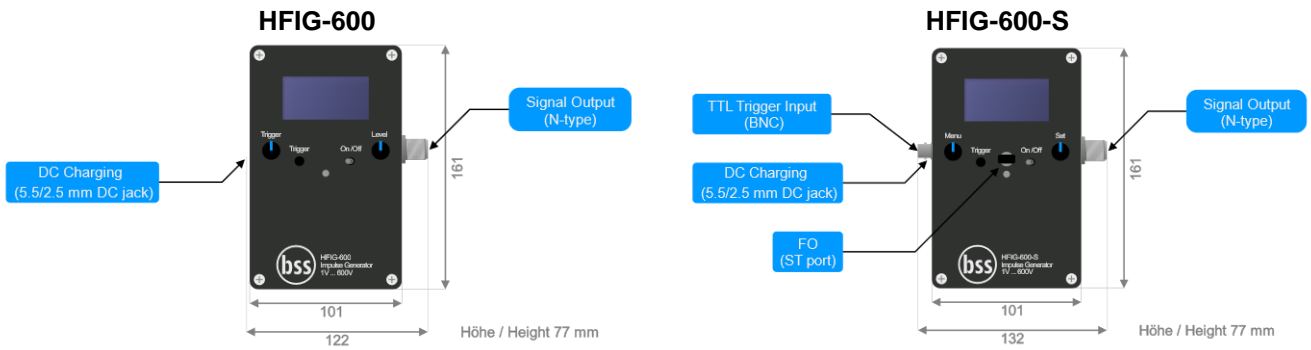
- Ultra high bandwidth:  
1 GHz (-1 dB) / 1.7 GHz (-3 dB)
- Short rise time 100 ps
- Impulse width 200 ps
- Output voltage up to 600 V in 50 Ω
- Various trigger options
- FO controllable
- Rechargeable lithium-ion battery-powered

## Technical Data

Max. impulse voltage	600 V at 50 Ω
Voltage regulation	1 V steps
Max. internal charging voltage	1.200 V DC
Max. instantaneous impulse power	7,2 kW at 50 Ω
Rise time (10% - 90%)	100 ps
Impulse width	200 ps

	Basic Version	S Version
Trigger options	<ul style="list-style-type: none"> <li>• Internal clock: 50 Hz, 60 Hz, 100 Hz, 120 Hz, 200 Hz, 240 Hz</li> <li>• Photo diode</li> <li>• Manual push button</li> </ul>	<ul style="list-style-type: none"> <li>• Internal clock: 50 Hz, 60 Hz, 100 Hz, 120 Hz, 200 Hz, 240 Hz</li> <li>• Photo diode</li> <li>• Manual push button</li> <li>• External on TTL signal (BNC input)</li> <li>• Fiber optic remote via Computer</li> </ul>
Dimensions (W x H x L), weight	122 mm x 77 mm x 161 mm, 1.2 kg	132 mm x 77 mm x 161 mm, 1.2 kg
Battery	Li-Ion 4800 mAh	
Power adapter	12 V DC, 2 A	
IP protection class	IP40	
Operation temperature	-20°C ... +50°C	

Dimensions



- DC charging: 5.5/2.5 mm DC jack male on left side
- Signal output: N female on right side
- TTL trigger input: BNC female on left side
- FO: ST port female on top cover

Scope of Delivery

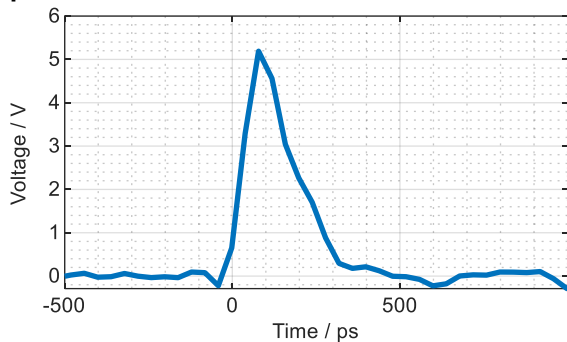
- HFIG-600
- AC/DC wall plug charger
- Factory routine test protocol

Type Tests

CE conformity	EMC, RoHS
EMC	EN IEC 61326-1
	Emission: CISPR 11 / EN IEC 55011
	Immunity: EN IEC 61000-4-2 / EN IEC 61000-4-3 / EN IEC 61000-4-4 / EN IEC 61000-4-5 / EN IEC 61000-4-6 / EN IEC 61000-4-8 / EN IEC 61000-4-11
Environmental	EN IEC 60068 EN IEC 60068-2-1 / EN IEC 60068-2-2

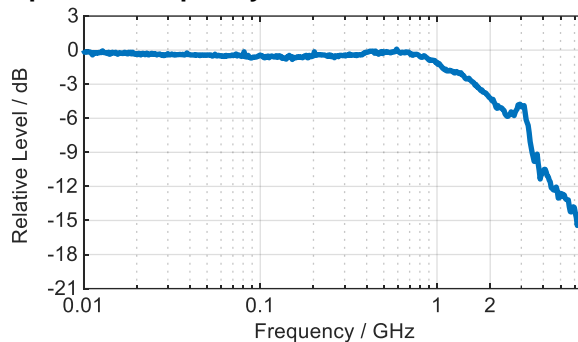
Typical Signal Shape of Generator

Impulse in time domain



- measured using a DSO with
- 8 GHz analog bandwidth
  - 25 GS/s sampling rate
  - 12 bit vertical resolution

Impulse in frequency domain



- measured using a spectrum analyzer with
- 7 GHz analog bandwidth
  - 3 MHz receiver bandwidth (RBW)
  - 10 MHz video bandwidth (VBW)

Order Information

Order code basic version: HFIG-600

Order code S version with additional TTL and fiber optic trigger: HFIG-600-S

Available Accessories

- USB to FO converter with FO cable for remote control from a PC. Note: Only available for S version.