Pursuit of excellent , service priority

Voltage Dips, Interruptions & Variations HPFS HV3P T HV3P VAR



Continue

General

Electrical and electronic equipment will be affected by voltage sags, short interruptions or voltage changes in the power supply. Voltage sags and short-term interruptions are caused by faults in the power grid or power facilities or sudden load changes. In some cases, there will be two or more consecutive dips or interruptions, and voltage changes are caused by continuous changes in the load connected to the grid. These phenomena are random in nature. In order to simulate in the laboratory, the deviation and duration of the rated voltage can be used to minimize their characteristics. In order to test the anti-interference performance of electrical equipment when encountering this situation, it is necessary to simulate this kind of grid power failure in the product development stage to evaluate the performance of electronic products under the electrical stress.

The HPFS immunity test system can quickly and completely complete the automatic test under the conventional IEC standard. HPFS can be started through the color touch screen interface on the front panel, or remotely controlled through the network cable. In addition to the parameter setting specified by the standard, it can also be set and run the test program according to user-defined parameters, which is fully compatible with the latest version of the IEC standard.

Features

- 7 Inch touch color screen, simple and elegant UI, benefit for operating
- Powered IGBT and meet AC&DC test requirements
- Inruch current>500A(50A), Inruch current>1000A(100A)
- External programmable AC tapped transformers and AC source
- External programmable DC fault power suppliers
- EUT rated current up to 16A/32A/64A/100A/200A

Applications

- IEC/EN 61000-4-11,GB/T 17626.11
- IEC/EN 61000-4-29,GB/T 17626.29
- IEC/EN 61000-4-34
- SEMIF47
- IEC/EN 61000-6-1
- IEC/EN 61000-6-2
- IEC62052-11 GB/T 17215.211
- IEC61326





Inruch current requirements

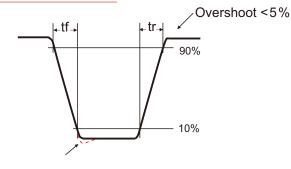
EUT current	Minimum peak inrush current capabilityof the generator
16A - 50A	500A
50.1A - 100A	1000A
>100A	Not Not less than 1 000 A, and sufficient to maintain ±10 %of required voltage value during maximum peak inrush,measured as r.m.s. value refreshed each ½ cycle perIEC 61000-4-30.

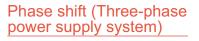
Rise time tr Fall time tf *

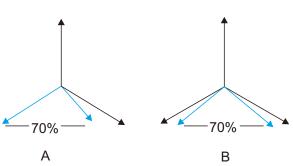
Device rated current	I<50A	50A≤I≤75A	75A <i≤100a< th=""><th>I>100A</th></i≤100a<>	I>100A
tr / tf	1-5µs		1-50µs	
Load impedance	100Ω	50	Ω	25Ω

*The load is a non-inductive resistance. This parameter is a requirement when the instrument is calibrated, not a true indicator when the EUT is running.

Overshoot and undershoot

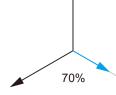






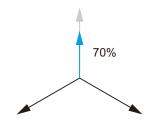
Phase-to-neutral







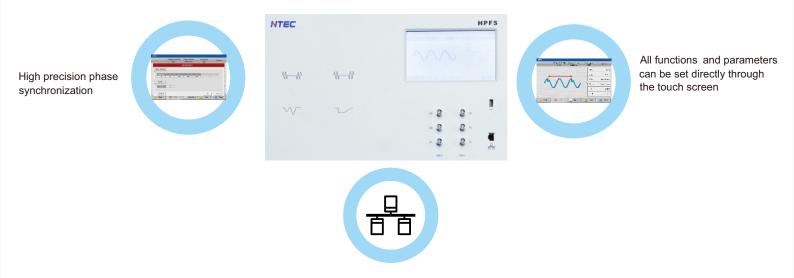




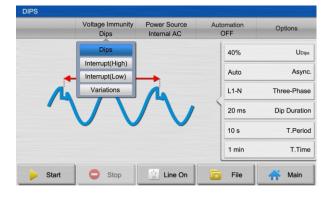


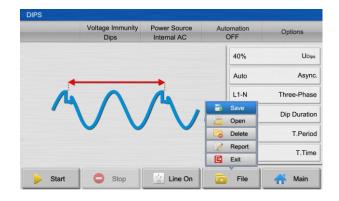


Humanized operation interface and connectors



Software GUI





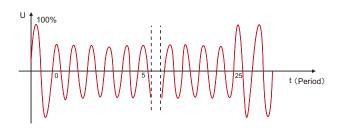


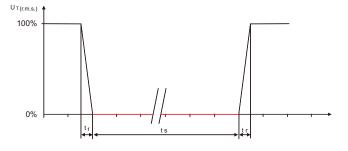




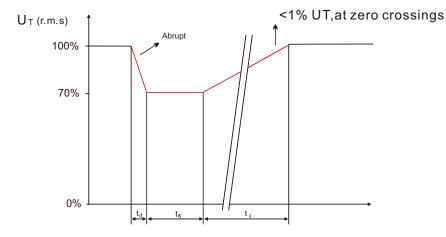
Voltage Dips Schematic

Voltage Interruption Schematic





Voltage Variations Schematic



Voltage Dips, Interruptions & Variations

Max. input voltage	300Vac(L-N) / 440Vdc	Continuous current	16A,32A,64A,100A,200A
Rise time/ Fall time	1 ~ 5μs (100Ωload)	Inrush current	≥1000A
Phase sync.	0-359°/step1°or asynchronous mode	Dips range	External AC/DC voltage source
Interrupt time	Async:100µs ~1000min Sync:0.5 period ~ 9999 period	Interval time	Async: 10ms ~ 1000min Sync: 1 period ~ 9999 period
Cycles	1 ~ 9999 cycles	Test time	1s ~ 1000min
Voltage variation	td:Abrupt	Voltage variation ti	25 period ~ 9999 period 500ms-9999min

General specifications

Supply voltage	100V ~ 240Vac	USB port	Data reporting, software/firmware updated
Touch screen	7 inch 800x480, 24 bit	Remote interface	Ethemet
SIze(MM)	W600×D800×H1750	Weight	Ca.200kg

HPFS Power Failure Simulator

N PE L			
Ordering No.	Product Name	Model	Description
41040100	Single-phase PFS	HPFS 161P	Dips:16Aac/dc,IEC 61000-4-11/-4-29
41040200 41040300 41040400 41040500	Three-phase PFS	HPFS 303P HPFS 603P HPFS 1003P HPFS 2003P	Dips:3×480Vac/32A,IEC 61000-4-11/-4-29/-4-34 Dips:3×480Vac/63A,IEC 61000-4-11/-4-29/-4-34 Dips:3×480Vac/100A,IEC 61000-4-11/-4-29/-4-34 Dips:3×480Vac/200A,IEC 61000-4-11/-4-29/-4-34
41100100 41100200 41100300 41100400 41100500 41100600	Three-phase AC tapped transformers	HV1P16T HV3P16T HV3P30T HV3P60T HV3P100T HV3P200T	40%,50%,70%,80%,16A 30%,40%,50%,60%,70%,80%,4×16A 30%,40%,50%,60%,70%,80%,4×32A 30%,40%,50%,60%,70%,80%,4×64A 30%,40%,50%,60%,70%,80%,4×100A 30%,40%,50%,60%,70%,80%,4×200A
41100700	Single-phase programmable AC module	HV1P16VAR	0-300V, L-N,1P/16A
41100800 41100900 41101000 41101100 41101200	Three-phase programmable AC module	HV3P16VA R HV3P30VA R HV3P60VA R HV3P100VA R HV3P200VA R	0-300V, L-N, 3P/16A, IEC61000-4-11/-4-34 0-300V, L-N, 3P/32A, IEC61000-4-11/-4-34 0-300V, L-N, 3P/64A, IEC61000-4-11/-4-34 0-300V, L-N, 3P/100A, IEC61000-4-11/-4-34 0-300V, L-N, 3P/200A, EC61000-4-11/-4-34
41101300	Single-phase AC manual voltage regulator	HMV1P	0-300V, L-N,1P/16A
41101400 41101500 41101600 41101700	Three-phase AC manual voltage regulator	HMV3P16 HMV3P30 HMV3P100 HMV3P200	0-300V, L-N, 3P/16A, IEC61000-4-11/-4-34 0-300V, L-N, 3P/32A, IEC61000-4-11/-4-34 0-300V, L-N, 3P/100A, IEC61000-4-11/-4-34 0-300V, L-N, 3P/200A, EC61000-4-11/-4-34
41101800 41101900	DC power module	HVDC 110-15 HVDC 360-25	110V/15A linear DC output, manual or automatic 360V/25A linear DC output,manual or automatic

33.32 cm

The leader of EMC Test and Measurement



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