



## ■ NST□□□ Series

### ■ Specification

- Very large capacity main power
  - High quality type SPD
- Class I (10/350uS), Class II, III (8/20uS)
- Surge event counter(option)
- Audible alarm & remote contact(option)
- Damage MODULE replaceable type
- Sine Wave tracking Filter(option)
- Redundant protection technology
- Maximum continuous operating voltage
  - Rated Voltage : 120~125%
- Operation Status
  - Red LED : Power Good
  - Green LED : SPD(Protection) Good
- Protection Mode : L-N, N-G , L-G(1Ø)  
L-N, L-G(3Ø)
- Protection method :
  - MOV(Metal Oxide Varistor)
  - Thermally protection MOV(TMOV)
  - Surge Suppression Fuse
  - Thermal runaway Fuse
- Surge life : 10,000 impulse 3KA
- Response time : 1 ~ 25 nanosecond
- Operating Frequency : DC ~ 400Hz,  
50/60Hz
- Operating temperature : -40 ~ 85°C
- Operating humidity : 95% RH
- Mounting type : screw mounting type
- Connection : Parallel type  
/ Wire(#AWG 3~6)
- Protection class : IP20(up to IP53)
- Enclosure : Steel box type  
/ NEMA 12 Meet



### ■ Application

- Very large capacity Main power
- UPS In/Out put power
- VMS Outdoor panel ,
- DAM & Water control center
- Broadcasting & Communication site
- Industrial plant
- Oil refinery
- Photovoltaic System
- Other Electrical Precision Equipment

### ■ Standards

- KS C IEC 62305
- KS C IEC 60364-4-44
- KS C IEC 61312-1
- KS C IEC 61643-1, 11 (2012)
  - / Type 1, 2, 3
  - / Class I, II, III
- Other relevant standards

### ■ Surge current (10/350uS, 8/20uS)

Model		Nominal voltage	MCOV	Surge current ((KA)					Protect Level(Up/kVpk		
Discharge current/ type of Power		Uo(V)	Uc (Vrms/ Vdc)	Iimp	I <sub>max</sub>	I <sub>n</sub>	Mode	Phase	3KA	10KA	
NST80□□□	-120S	1P 2W 120	150	20	80	40	80	160	0.4	1.2	
	-120Y	3P 4W 120/208									
	-240P	1P 3W 120/240									
NST120□□□	-220S	1P 2W 220	275	30	120	60	120	240	0.8	1.6	
	-220D	3P 3W 220									
	-220Y	3P 4W 220/380									
NST160□□□	-380D	3P 3W 380	475	-	160	80	160	320	1.5	2.5	
	-480D	3P 3W 480									
	-277Y	3P 4W 277/480									
NST200□□□	-480S	1P 2W 480	600	-	200	100	200	400	1.8	3.0	
	-600S	1P 2W 600									
	-150P	DC 2W 125									
NST240□□□	-250P	DC 2W 220	800	-	240	120	240	480	2.2	4.0	
	-500P	DC 2W 460									
	-750P	DC 2W 680									
	-900P	DC 2W 820									
	-1200P	DC 2W 1000									
Certification(inquiry)		KS C IEC 61643-11 : 2012									
Option "□□□"		* "MSD" Module replaceable, Surge counter, Dry contact			* "SD" Surge Counter, Dry contact						
		* "M" Module replaceable type			* "S" Surge Counter						
		* "D" Dry Contact									
Dimension		* MSD, SD, S, Model : 305 X 350 X 127mm			* M, D, Model : 250 X 290 X 100mm						
		* May be subject to change depending on the capacity and Operating voltage									

\* 공칭방전전류 : I<sub>n</sub>(Nominal discharge current, 8/20uS)  
 \* 최대방전전류 : I<sub>max</sub>(Maximum discharge current, 8/20uS)