



■ **NSB□□□S Series**

■ **Specification**

- Large~Small capacity main power
 - High quality type SPD
- Class III (1.2/50uS, 8/20uS)
- Surge event counter(option)
- Audible alarm & remote contact(option)
- 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-L, 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 8~10)
- Protection class : IP20
- Enclosure : Steel box type / NEMA 12 Meet



■ **Application**

- Large ~Small 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 3 / Class III
- Other relevant standards

■ **Surge current (1.2/50uS, 8/20uS)**

Model		Nominal voltage	MCOV	Surge current (kA)				Protect Level(Up/kVpk)	
Discharge current/ type of Power		Uo(V)	Uc (Vrms/ Vdc)	I max	In	Mode	Phase	3KA	10KA
NSB80S	-120S	1P 2W 120	150	40	20	40	80	0.4	1.2
	-120Y	3P 4W 120/208							
	-220S	1P 2W 220	275					0.8	1.6
	-220D	3P 3W 220							
NSB160S	-220Y	3P 4W 220/380	475	80	40	80	160	1.5	2.5
	-380D	3P 3W 380						1.8	3.0
NSB240S	-277Y	3P 4W 277/480	320	120	60	120	240	1.0	2.0
	-480S	1P 2W 480	600					1.8	3.2
NSB320S	-600S	1P 2W 600	800	160	80	160	320	2.2	4.0
	-150P	DC 2W 125	150					0.4	0.8
	-250P	DC 2W 220	260					0.5	1.0
	-500P	DC 2W 460	560					1.0	2.0
	-750P	DC 2W 680	810					1.3	2.4
	-900P	DC 2W 820	980					1.5	2.7
	-1200P	DC 2W 1000	1200	1.8	3.2				
Certification(inquiry)		"CE" Mark(KS C IEC 61643-11 : 2012)							
Dimension		Single /Three Phase : 140 × 180 × 85mm(240~320KA) Single/ Three Phase : 110 × 172 × 80mm(80~160KA) * May be subject to change depending on the capacity and Operating voltage							

* In(Nominal discharge current,8/20uS)

* Imax(Maximum discharge current, 8/20uS)