

Model ES Series

External Short Tester



DESCRIPTION

The ES series is manufactured to comply with international test standards for external short-circuit tests of secondary batteries. Especially, ES Series provides the best results in research/development/test/verification by grafting NEOSENS's own advanced DAQ technology.

FEATURES

- ✓ Battery Charging Voltage (5~1,500V)
- ✓ Short Current (500A~50,000A)
- ✓ Single / Multi-Stage Variable resistor
- ✓ Mechanical / Electrical Contactor Switch System
- ✓ Full remote control via ethernet
- ✓ Various DAQ available
- ✓ CE,UL available



* Available

Model ES Series

ES Series

Model Name (Refer to note 1)	Capacity		Resistance [mΩ] (Refer to note 2/3)	Multi-Channel	Resistor Change
	Voltage [V]	Current [A]			
ES-500E(M)	~ 5	500	(0.5), 1,2,3 ----- 80,100,150,200	O	Manual (Auto)
ES-1KE(M)	~ 20	1,000	(0.5), 1,2,3 ----- 80,100,150,200	O	Manual (Auto)
ES-3KE(M)	~ 100	3,000	(0.5), 1,2,3 ----- 80,100,150,200	O	Manual (Auto)
ES-5KE(M)	~ 1,000	5,000	1,2,3 ----- 80,100,150,200	(O)	Manual
ES-10KE(M)	~ 1,500	10,000	1,2,3 ----- 80,100,150,200	(O)	Manual
ES-30KE	~ 1,500	30,000	1,2,3 ----- 80,100,150,200	T.B.D.	Manual
ES-50KE	~ 1,500	50,000	5, ----- 80,100,150,200	T.B.D.	Manual
ES-O	Order made type		-		

Note

1. ES-000E(M) / The terminating letter "E" stands for electrical switches and "M" stands for mechanical switches.
2. It is based on the resistance value of the marked short-circuited cable end point.
3. If the short-circuit cable is more than 3M, copper busbar construction may be carried out to maintain a low short-circuit resistance value, and in this case, a separate consultation is required.

ES Series

Model Name (Refer to note 1)	Capacity		Accuracy	
	Voltage [V]	Current [A]	Voltage [V] (%FS)	Current [A] (%FS)
ES-500E(M)	~ 5	500	±<0.1%	±<0.2%
ES-1KE(M)	~ 20	1,000	±<0.1%	±<0.5%
ES-3KE(M)	~ 100	3,000	±<0.1%	±<0.5%
ES-5KE(M)	~ 1,000	5,000	±<0.1%	±<0.5%
ES-10KE(M)	~ 1,500	10,000	±<0.1%	±<1%
ES-30KE	~ 1,500	30,000	±<0.1%	±<1%
(ES-50KE)	~ 1,500	50,000	±<0.1%	±<1%
ES-O	Order made type		-	-

Note

1. Numbers in () are optional specifications.

ES Series

Model Name	-	Power source		
		AC220 1Φ	AC220 3Φ	AC380 3Φ
All ES Series	-	O	O	O

Note

Power source can be discussed.



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ES Series						
Model Name (Refer to note 1)	Capacity		DAQ List			
	Voltage [V]	Current [A]	Voltage	Current	Temp.	Video
ES-500E(M)	~ 5	500	op	op	op	op
ES-1KE(M)	~ 20	1,000	op	op	op	op
ES-3KE(M)	~ 100	3,000	op	op	op	op
ES-5KE(M)	~ 1,000	5,000	op	op	op	op
ES-10KE(M)	~ 1,500	10,000	op	op	op	op
ES-30KE	~ 1,500	30,000	op	op	op	op
ES-50KE	~ 1,500	50,000	op	op	op	op
ES-O	Order made type		-	-	-	-

Note

- 1) Symbol “d” means to default specification.
The saving speed of the default specification is up to 10Hz.
- 2) Symbol “op” means to optional specification.

ES Series						
Model Name	Capacity		DAQ Speed (Hz)			
	Voltage [V]	Current [A]	Voltage	Current	Temp.	Video
ES-500E(M)	~ 5	500	~1k/(2k)/(1,000k)	~1k/(2k)/(1,000k)	~1k/(2k)/(1,000k)	~1k/(2k)/(1,000k)
ES-1KE(M)	~ 20	1,000	~1k/(2k)/(1,000k)	~1k/(2k)/(1,000k)	~1k/(2k)/(1,000k)	~1k/(2k)/(1,000k)
ES-3KE(M)	~ 100	3,000	~1k/(2k)/(1,000k)	~1k/(2k)/(1,000k)	~1k/(2k)/(1,000k)	~1k/(2k)/(1,000k)
ES-5KE(M)	~ 1,000	5,000	~1k/(2k)/(1,000k)	~1k/(2k)/(1,000k)	~1k/(2k)/(1,000k)	~1k/(2k)/(1,000k)
ES-10KE(M)	~ 1,500	10,000	~1k/(2k)/(1,000k)	~1k/(2k)/(1,000k)	~1k/(2k)/(1,000k)	~1k/(2k)/(1,000k)
ES-30KE	~ 1,500	30,000	~1k/(2k)/(1,000k)	~1k/(2k)/(1,000k)	~1k/(2k)/(1,000k)	~1k/(2k)/(1,000k)
ES-50KE	~ 1,500	50,000	~1k/(2k)/(1,000k)	~1k/(2k)/(1,000k)	~1k/(2k)/(1,000k)	~1k/(2k)/(1,000k)
ES-O	Order made type		-	-	-	-

Note

- 1) The saving speed can be changed by the user in the program within the maximum DAQ speed.
The saving speed of the default specification is up to 1kHz.
- 2) All data, including video recording, are synchronized and stored.
- 3) Video recording use USB Web cam and up to 6 cameras can be saved at the same time.
** Separate consultation is required for multi-channel simultaneous recording.

If you need to record video using an IP camera, you must use a private recording program, and in this case, synchronization is not possible.

- 4) Numbers in () are optional specifications.



* Available

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Model Name (Refer to note 1)	Capacity		Temperature chamber application	
	Voltage [V]	Current [A]	Safety Chamber	Explosion Chamber
ES-500E(M)	~ 5	500	O	O
ES-1KE(M)	~ 20	1,000	O	O
ES-3KE(M)	~ 100	3,000	O	O
ES-5KE(M)	~ 1,000	5,000	O	O
ES-10KE(M)	~ 1,500	10,000	O	O
ES-30KE	~ 1,500	30,000	O	O
ES-50KE	~ 1,500	50,000	O	O
ES-O	Order made type		-	-

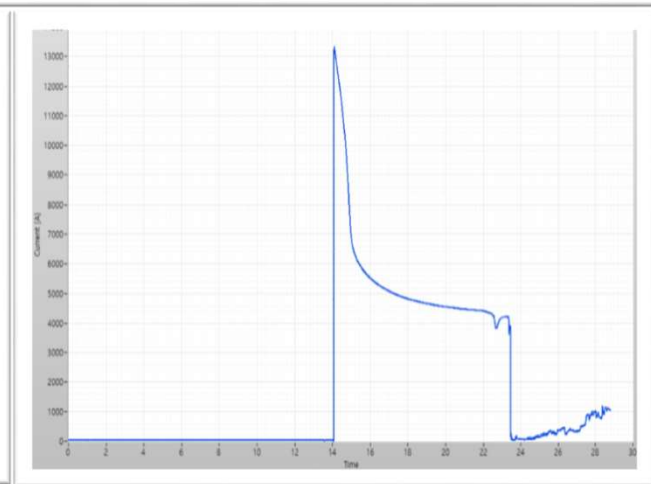
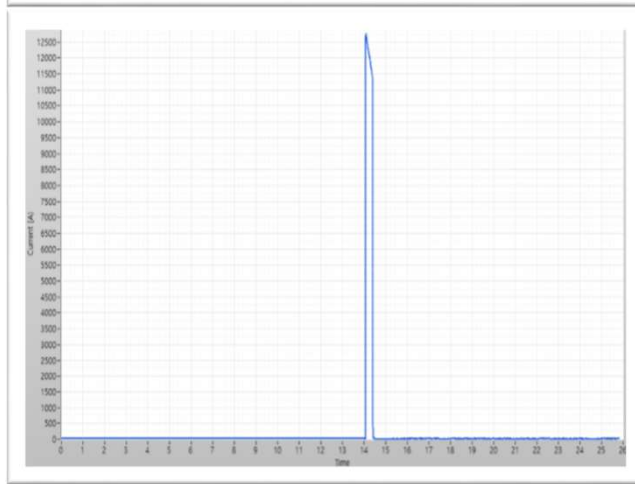
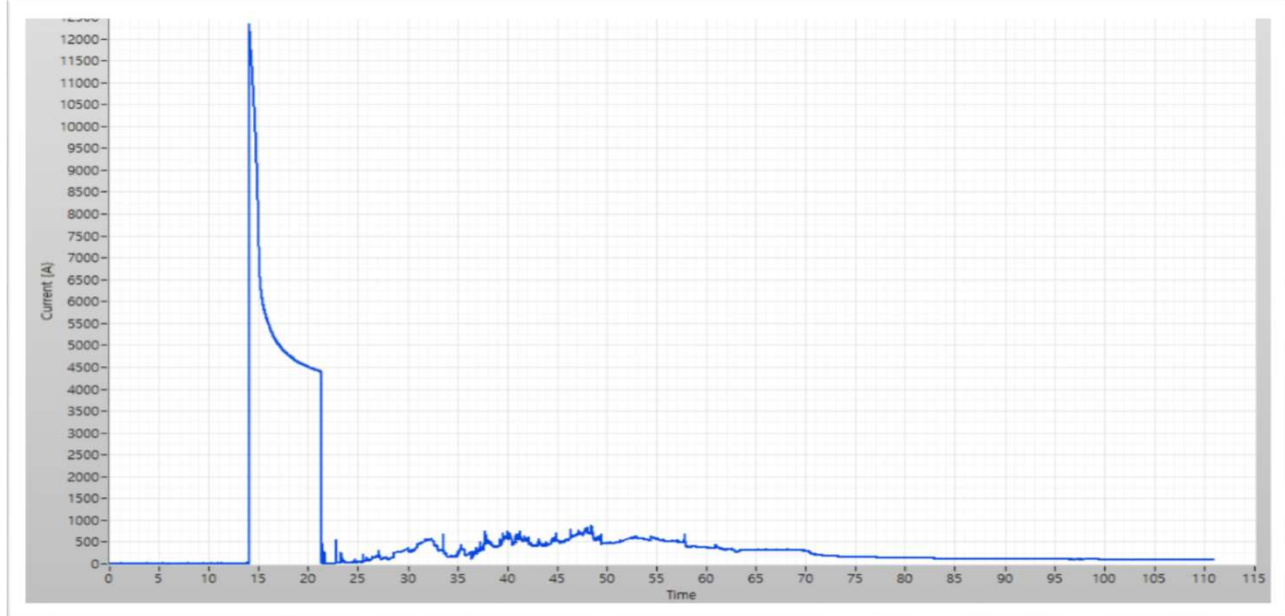
Note

- 1) The application of the temperature chamber can be decided at the specification meeting with the customer.



* Available

Model ES Series



CE  * Available

Model ES Series

NOTES

1. All equipment can be manufactured after specification discussion and confirmation with the customer.
2. The type and specification of the tool to be used for the test should be decided after consultation before submitting the quotation.
3. For specifications that are changed or added after the contract, depending on the scope, it may be paid or free of charge.
4. As it is a facility manufactured exclusively for each customer, CE and UL certification can be carried out individually.
5. The contents of this specification are subject to change without notice, check and confirmation of specifications must be conducted after consultation with the responsible salesperson.

Warranty. NEOSENS INSTRUMENT warrants goods of its manufacture as being free of defective materials and faulty workmanship.

NEOSENS INSTRUMENT's standard product warranty applies unless agreed to otherwise by NEOSENS INSTRUMENT in writing; please refer to your order acknowledgement.

For more information visit our website.

www.neosens-ins.com or call +82-31-8014-2500

Email inquiries to info.neosens-ys@neosens.co.kr

WARNING

PERSONAL INJURY

- DO NOT USE Do not use this product for any purpose other than the secondary battery crush test.

Failure to comply with these instructions could result in death or serious injury.

WARNING

MISUSE OF DOCUMENTATION

- The information presented in this catalogue is for reference only. DO NOT USE this document as product installation information.
- Complete installation, operation and maintenance information is provided in the instructions supplied with each product.

Failure to comply with these instructions could result in death or serious injury.

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