

## RS Series list of standards and tests

The list below shows the tests performed on the RS Series.

### Cell level

Standard	Test	Date	Notified body	Passed
IEC 62619:2017 EN 62619:2017	7.2.1 External short-circuit test	14-02-2020	TÜV Rheinland Japan Ltd.	P
	7.2.2 Impact test			P
	7.2.3.2 Whole drop test			P
	7.2.4 Thermal abuse test			P
	7.2.5 Overcharge test			P
	7.2.6 Forced discharge test			P
	7.3.2 Internal short-circuit test (cell)			P
IEC 62620:2014 EN 62620:2015	6.4 Charge (capacity) retention and recovery	22-6-2021	MG Energy Systems B.V. / Kiwa Primara GmbH	P
	6.5.2 Measurement of the internal a.c. resistance	27-05-2021	Kiwa Primara GmbH	P
UN38.3 Rev. 6 + Amendment 1 Transport safety tests (cell level)	T1: Altitude simulation	30-3-2020	TÜV Rheinland Taiwan Ltd.	P
	T2: Thermal test			P
	T3: Vibration			P
	T4: Shock			P
	T5: External short-circuit			P
	T6: Impact / crush			P
	T8: Forced Discharge			P

### Battery module and system level

Standard	Test	Date	Notified body	Passed
IEC 62619:2017 EN 62619:2017	7.2.3 Drop test	17-3-2021	Kiwa Primara GmbH	P
	8.2.2 Overcharge control of voltage	2-6-2020	DNV-GL witnessed	P
	8.2.3 Overcharge control of current	1-6-2020	DNV-GL witnessed	P
	8.2.4 Overheating control	3-6-2020	DNV-GL witnessed	P
IEC 62620:2014 EN 62620:2015	6.3.1 Discharge performance at +25°C	14-5-2020	DNV-GL witnessed	P
	6.3.2 Discharge performance at low temperature	9-6-2021	Kiwa Primara GmbH	P
	6.3.3 High rate permissible current	22-6-2021	MG Energy Systems B.V. / Kiwa Primara GmbH	P
	6.5.3 Internal D.C. resistance	29-4-2021	Kiwa Primara GmbH	P
	6.6.1 Endurance cycle	28-5-2021	MG Energy Systems B.V. / Kiwa Primara GmbH	P

CISPR 16-2-1	14.12 Conducted emission	7-7-2020	Dekra Certification B.V.	P
CISPR 16-2-3	14.11 Rated emission (150 kHz to 30 MHz)			P
CISPR 16-2-3	14.11 Rated emission (30 kHz to 1000 MHz)			P
IEC 60945	14.4 Conducted low frequency immunity test			P
IEC 61000-4-4	14.5 Electrical fast transient/burst immunity test			P
IEC 61000-4-5	14.6 Electrical slow transient/surge immunity test			P
IEC 61000-4-6	14.7 Conducted radio frequency immunity test			P
IEC 61000-4-3	14.8 Radiated electromagnetic field immunity test			P
IEC 61000-4-2	14.9 Electrostatic discharge immunity test			P
DNVGL-CG-0339	4 Electrical power supply failure test	21-11-2019	TÜV Rheinland LGA Products GmbH	P
	5 Power supply variation tests			P
	6.2 Vibration: Sweep sine test			P
	6.3 Vibration: Wide band random test			P
	7 Dry heat			P
	8 Damp heat test			P
	9 Cold test			P
	12 Insulation resistance test			P
	13 High voltage test			P
UN38.3 Rev. 7 Transport safety tests (battery level)	T1: Altitude simulation	26-11-2019	TÜV Rheinland LGA Products GmbH	P
	T2: Thermal test			P
	T3: Vibration			P
	T4: Shock			P
	T5: External short-circuit			P
	T7: Overcharge			P