

TESTING AND MEASURING EQUIPMENT/ALLOWED SUBCONTRACTING
IEC 62281:2016, Edition 3.0
Safety of primary and secondary lithium cells and batteries during transport

“R” Required
 “S” May be subcontracted, see OD 2012
 “SPTL” Specialized Facility, see IECEE 02-2
 “W” Witness testing in the categories “MED” and “MEAS”
 “3PPS” Three Phase Power Supply required

Clause	Measurement/testing	Testing / measuring equipment / material needed	Subcontracting
6.4.1	Altitude	Vacuum chamber. Per IEC 62281:2016, Clause 6.4.1.	R
		Timer.	R
		Weight scale.	R
6.4.2	Thermal cycling	Oven. Per IEC 62281:2016, Clause 6.4.2.	R
		Timer.	R
		Weight scale.	R
6.4.3	Vibration	Vibration tester. Per IEC 62281:2016, Clause 6.4.3.	R
		Timer.	R
		Weight scale.	R
6.4.4	Shock	Shock tester. Per IEC 62281:2016, Clause 6.4.4.	R
		Weight scale.	R
6.4.5	External short-circuit	Multimeter – 0.1 Ω.	R
		Oven.	R
		Timer.	R
		Temperature recorder.	R

Clause	Measurement/testing	Testing / measuring equipment / material needed	Subcontracting
6.4.6	Impact	Steel bar. Per IEC 62281:2016, Clause 6.4.6.	R
		Mass and sliding channel. Per IEC 62281:2016, Clause 6.4.6.	R
		Height measurement.	R
		Timer.	R
6.4.6	Crush	Crush tester. Per IEC 62281:2016, Clause 6.4.6.	R
		Multimeter.	R
		Dimension measurement device.	R
		Timer.	R
6.5.1	Overcharge	DC power supply.	R
		Timer.	R
6.5.2	Forced discharge	DC power supply.	R
		Timer.	R
6.6	Drop test	Concrete floor.	R
		Height measurement.	R