

USA Battery Assembly Technology, Application & Market Review

Report Content

- Why to use a battery pack
- Battery pack components
- Cells used in a battery pack
- Resistance and laser spot welding
- Connect: Aluminium wire 0.4mm
- High power cells connection
- Pouch cells connection
- PCM, BMS
- Battery pack internal connections
- Battery pack insulation
- Shrink wrap packaging materials
- Potting for adding strength
- Geometry and topology
- Battery pack enclosures
- Battery pack design & requirements documents
- Battery pack design process
- Cell selection
- Designed capacity
- Cell verification tests
- Design for safety
- Balancing
- Battery pack validation tests
- Mechanical design
- Battery pack certification
- Review of 62 USA leading battery assemblers and pack makers
- Market table + company size and foundation year

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Cell Maker	Automotive	Military	Aviation/Aerospace	Medical	Consumer	Back-Up/ESS	Light EV	Power/Garden Tool	Marine	Oil & Gas	Industrial	Company size	Founded
x	x											1001-5000	2001
		x	x									51-200	1982
				x	x	x	x	x	x		x		
			x		x	x		x	x		x	up to 50	2001
				x								201-500	1986
	x											51-200	2018
			x		x				x		x	up to 10	1992
					x						x	51-200	1979
				x	x	x	x	x			x	up to 50	
		x	x						x			201-500	1973
	x	x		x		x					x	up to 50	1983
x	x					x						10001+	2019
	x											10001+	1919
						x					x	51-200	1963
		x	x	x	x	x	x	x	x		x	51-200	1965
x		x	x	x								501-1000	1843
x		x							x	x	x	51-200	1985
		x		x			x	x		x	x	501-1000	
x	x	x				x						51-200	2004
x	x												
		x	x									51-200	1952
				x	x	x					x		
		x		x	x						x	up to 50	1975
x		x	x								x	up to 50	2006
		x		x	x						x	up to 50	1987
				x	x							up to 10	
		x		x	x	x		x			x	1001-5000	1960
				x	x						x	51-200	1997
x	x	x	x	x		x					x	51-200	2006
x	x					x						501-1000	2010
						x	x		x		x	up to 50	2008
x	x			x		x			x		x	501-1000	2017
						x			x		x	up to 50	2015
		x										up to 10	
		x										up to 50	2003
				x	x							up to 50	1981
	x	x	x	x	x	x			x			51-200	2013
		x		x		x					x		
		x										up to 10	
		x	x	x	x						x		
					x								
	x					x	x		x			up to 50	2014
	x											1001-5000	1915
	x											51-200	2015
					x							up to 50	1963
x	x	x		x		x				x	x	1001-5000	
x	x												
			x									51-200	1969
									x		x	up to 50	2013
										x		up to 10	
										x		51-200	1964
				x	x	x					x		
					x							51-200	2004
		x		x	x			x				51-200	1985
x		x			x					x			
			x						x			51-200	
x		x	x	x	x	x	x		x		x	1001-5000	1990
			x										
x			x			x							
		x			x								
x	x					x			x			201-500	2009

- Companies name and details are presented in the market report
Contact us for purchasing a copy - shmuel@sdle.co.il
Research files type: Power Point

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