

# INTRODUCING “OTI”

OTI and its business model reflects a scientific and proprietary breakthrough that is expected to disrupt and shift the international energy storage marketplace. It’s technology is more effective, less expensive, greener, smaller and lighter—all significant advantages to industries that rely on energy storage solutions.



## COMPETITIVE ADVANTAGES

	Lead-acid	Lithium-ion Types (eg Tesla)			OTI (projected)
		Cobalt	Manganese	Phosphate	
Specific Energy (Wh/Kg)	30-50	150-250	100-150	90-120	90 range
Energy Density (Wh/L)	50-80	200-400	150-250	150-200	80 range
Internal Resistance	very low	moderate	low	very low	low
Cycle Life (at 80% DoD), cycles	200-300	500-1000	500-1000	1000-2000	2000-4000
Charge Time	8-16 hours	2-4 hours	1-2 hours	1-2 hours	4-8 hours
Overcharge Tolerance	High	Low-no trickle charge			High
Self Discharge/month (20°C)	5%	<5% safety circuit uses 3%/m			<1%
Cell Voltage (Nominal)	2V	3.6V	3.7V	3.2-3.3V	1.5V
Charge Cutoff Voltage (V/cell)	2.4 - Float 2.25	4.2 type, some higher		3.6	1.9
Discharge Voltage (V/cell, 1C)	1.75	2.5-3		2.5	0.9
Charge Temp Range (°C)	-20 to +50	0 to +45 (cannot charge below 0)			-10 to +50
Discharge Temp Range (°C)	-20 to +50	-20 to +60			-10 to +50
Maintenance Requirements	3-6 months topping charge	Maintenance free			Maintenance free
Safety Requirements	Thermally stable	Protection circuit mandatory			None
In Use Since	Late 1800s	1991	1996	1999	2018
Toxicity	Very High	High			None
Cost	Low	High			Low

For more information about OTI, please contact: **Dean Brigham, CEO** at 416 574-7025.

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