



## **PULSE 2.5** high-power battery module

### Fast-charging system for all-electric and hybrid heavy vehicles

	Fast charge & peak shaving	+ High-power capability: 9 C peak 10s
	Easy integration	+ Scalable modular system of 2.5 kWh modules connected both in series and in parallel + Optimal flat mechanical design
	High reliability & safety	+ Liquid thermal management + Best-in-class proprietary BMS technology + R10.5; DNV-GL (on going) certifications
	Great Total Cost of Ownership (TCO) & fast availability	+ Excellent cycle life up to 15 years + High-volume series production

# Pulse 2.5 high-power Li-ion LTO battery module

PHYSICAL SPECIFICATIONS	CONDITIONS	UNIT	# MODULES							
			1	2 to 9	10	11	12	13	14	15
<b>VOLTAGE</b>										
Minimal	-	V	36	...	360	396	432	468	504	540
Nominal	-	V	55	...	550	605	660	715	770	825
End of charge	-	V	65	...	650	715	780	845	910	975
<b>ENERGY</b>										
Energy	-	kWh	2.5	...	25	27.5	30	32.5	35	37.5
<b>POWER</b>										
Peak power in charge / discharge	pulse 10 s (4%DOD)	kW	22	...	220	243	265	287	309	331
Continuous power in charge / discharge	RMS continuous*	kW	8.8	...	88	97.2	106	115	124	133
<b>CURRENT</b>										
Peak current in charge / discharge	pulse 10 s (4%DOD)	A	400 (9 C)							
Continuous current in charge / discharge	RMS continuous*	A	160 (3.5 C)							
<b>DENSITY</b>										
Specific energy	-	Wh/kg	58							
Energy density	-	Wh/L	88							
Power density	-	W/kg	511							
<b>CYCLE LIFE</b>										
Cycle life	100% DOD, 3C/3C		> 15,000 cycles							
<b>MECHANICAL CHARACTERISTICS</b>										
Volume		Liter	28.4	...	284.0	312.4	340.8	369.2	397.6	426
Weight		kg	43	...	430	473	416	559	602	645
Height		mm	129	depends on pack arrangement						
Width		mm	285	depends on pack arrangement						
Depth		mm	772	depends on pack arrangement						

@ 25°C | DOD: Depth Of Discharge \* RMS C-rate: alternating charge and discharge for several hours of operations 24/7

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