

INFORMATION ON REGULATION (EU) 2023/1542
 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL
 Article 10 – Performance and Durability Requirements
 Lithium Prismatic Batteries



		Conditions @25°C±2°C			
		Applied Discharge rate	Applied Charge rate	Depth of Discharge	Comment
48V 105 Ah Battery					
Rated Capacity in Ah	100 Ah	0.33C	0.5C	100	
Capacity Fade in %	20%	0.33C	0.5C	100	
Rated capacity fade (in 80%SOH)	80 Ah	0.33C	0.5C	100	
Power (W) [mean power]	7680 W	1.5C	N/A	Inst (~3 sec)	
Power Fade in %	20%	0.33C	0.5C	Inst (~3 sec)	
Power capability at 80% SOC at BoL	7680 W	1.5C	N/A	Inst (~3 sec)	Calculations based on P4 with 1.5C(150A) discharge at 80% SOC, at calculation, it is 7680W.
Power capability at 20% SOC at BoL	6000 W	1.2 C	N/A	Inst (~3 sec)	
Internal Resistance (mΩ) @ 0 cycle	10 mΩ	N/A	N/A	N/A	
Internal Resistance increase in % @ 4000 cycles	32%	0.33C	0.5C	100	
Round Trip efficiency @ 1 cycle	92.5%	0.5C	0.5C	100	
Fade in Round Trip efficiency in % @ 4000 cycles	91.5%	0.5C	0.5C	100	
Expected Life-time in cycles	4000	0.5C	0.5C	100	Approx. 8 years

