Lithium Battery Parameters

REGULATION (EU) 2023/1542 Article 10 - Annex IV of Part A Performance and durability requirements		
Model : UVPL12H - 192V Lithium-Ion EBP		
SI no.	**Parameter**	**Value**
1	Rated capacity (in Ah)	12Ah
2	Rated capacity fade (in %)	4.8Ah(40% to EOL)
3	Power (in Wh)	6648.962W (which is composed of 60 pcs LFP cells of 3.2V/3Ah connected in series and 4pcs LFP cells of 3.2V/3Ah connected in parallel, and consist of 60S4P pack)
4	Power fade (in %)	6441.645W(40% to EOL)
5	Internal resistance (in Ω)	≤0.180Ω
6	Internal resistance increase (in %)	≤100%
7	Where applicable, energy round trip efficiency	93%
8	Where applicable, energy round trip efficiency fade (in %)	90%
9	Expected life-time of the battery	5 Years

REGULATION (EU) 2023/1542 ANNEX VII	
PARAMETERS FOR DETERMINING THE STATE OF HEALTH AND EXPECTED LIFETIME OF BATTERIES	
Model: UVPL12H - 192V Lithium-Ion EBP	
Part A : Parameters for determining the state of health of stationary battery energy storage systems	
Parameter	**Value**
The remaining capacity	12Ah （initial Value
Where possible, the remaining power capability	2304Wh （initial Value）
Where possible, the remaining round-trip efficiency	93% （initial Value）
The evolution of self-discharging rates	0.8%/hour
where possible, the ohmic resistance	<180 mOHM （initial Value）

REGULATION (EU) 2023/1542 ANNEX VII	
PARAMETERS FOR DETERMINING THE STATE OF HEALTH AND EXPECTED LIFETIME OF BATTERIES	
Model: UVPL12H - 192V Lithium-Ion EBP	
Part B Parameters for determining the expected lifetime of stationary battery energy storage systems	
Parameter	**Value**
The date of manufacture of the battery and, where appropriate, the date of putting into service	View product label
The energy throughput	2304Wh （initial Value）
The capacity throughput	93% （initial Value）
The tracking of harmful events such as: (below items)	
(a)the number of deep discharge events	0 (initial value)
(b)time spent in extreme temperatures	0 (initial value)
(c)time spent charging in extreme temperatures	0 (initial value)
The number of full equivalent charge discharge cycles	0 (initial value)