			Title		
			System Interface Specification (NE1800-403DH)		
	RESPONSIBLE	DATE	SIZE	DOCUMENT NO.	REV
AUTHORS			A4	P300-5174	00
USER					
RELEASE					
MANUAL CHANGE PROHIBITED				SHEET 1 OF 4	

System Interface Specification

NE1800-403DH, 63.93kWh

Customer	Approved

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1. PACK System Parameters

Specific parameters for the Pack are detailed in the chart below

Parameter	Units	Specification	Note
Cell	Ah	60	ETI123100302 E60A
Series	N/A	96	One Module
Parallel	N/A	3	One Module
Cell Voltage			
Max	V	4.2	At 100% SOC
Nom	V	3.7	At 50% SOC
Min	V	2.7	At 0% SOC
Cell Capacity			
Rated	Ah	60	From cell specification
Minimum	Ah	58.8	From cell specification
Pack Configuration			
Cell Element	Module	24	element contains 12 cells (4s3p)
Pack Capacity (BOL)			
Rated	Ah	180	Calculated based on cell capacity
Minimum	Ah	176.4	Calculated based on cell minimum capacity
Pack Capacity (EOL)			
Rated	Ah	126	Estimated at 70%
Minimum	Ah	123.48	Calculated based on cell minimum capacity with estimated at 70%
Pack Voltage			
Max	V	403.2	Determined at maximum Pack voltage
Nom	V	355.2	Determined at nominal Pack voltage
Min	V	259.2	Determined at minimum Pack voltage
Pack Energy			
Rated	kWh	63.93	Calculated value based on rated system capacity
Minimum	kWh	62.65	Calculated value based on minimum capacity
Usable (typical)	kWh	38.35	Estimated energy between 20% and 80% SOC, de-rated specific to system application
Usable (max)	kWh	54.34	Estimated energy between 10% and 95% SOC, de-rated specific to system application
Pack Discharge Power			
Continuous	kW	19.18	At nominal system voltage (54A*355.2)
Max	kW	127.87	At nominal system voltage (360A*355.2)
Peak	kW	191.80	At nominal system voltage (system/cell peak, duration less than 60s)
Pack Charge Power			
Continuous	kW	19.18	At nominal system voltage (54A*355.2)
Max	kW	63.93	At nominal system voltage (180A*355.2)
Peak	kW	95.90	At nominal system voltage (system/cell peak, duration less than 60s)
Pack Discharge Current			
Continuous	A	54	Continuous between 20% and 100% SOC, specific to system application
Max	A	360	Continuous between 20% and 100% SOC (system maximum continuous)

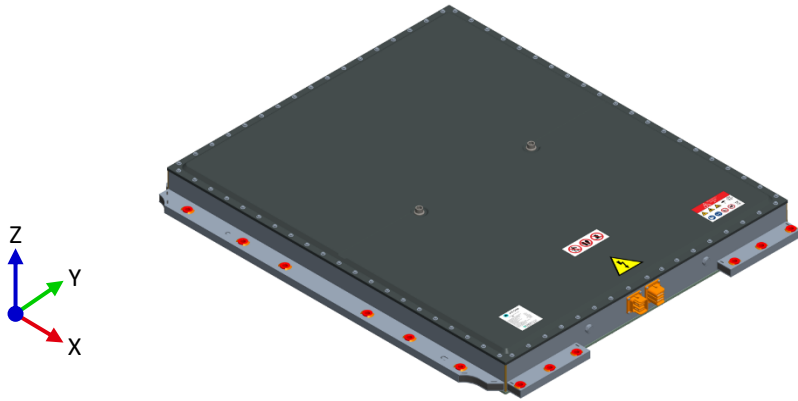
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Parameter	Units	Specification	Note
Peak	A	540	Between 20% and 100% SOC (system/cell maximum surge, duration less than 60s)
Pack Charge Current			
Continuous	A	54	Continuous between 0% and 80% SOC, specific to system application
Max	A	180	Continuous between 0% and 80% SOC (system maximum continuous)
Peak	A	270	Between 0% and 80% SOC (system/cell maximum surge, duration less than 60s)
Pack Specification			
Mass	kg	Approx. 415	Approximate calculated value
Battery Shelf Life	years	5	Continuous between 20% and 80% SOC
Operating Temperature/Humidity			
Max	% RH	85	Range (cell min/max)
Min	% RH	45	Range (cell min/max)
Max	Degrees °C	55	Zero Current Limited Above Max Operating Temp
Min(Discharge)	Degrees °C	(-)20	Zero Current Limited Below Min Operating Temp
Min(Charge)	Degrees °C	0	Zero Current Limited Below Min Operating Temp
Storage Temperature	Degrees °C	0 to 25 ≤1year	Range (cell min/max)
		0 to 45 ≤3Month	Range (cell min/max)
		-30 to 60 ≤1Month	Range (cell min/max)

Table 1 - Product Technical Specifications

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2. Mechanical Drawings



Parameter	Unit	Value
X Dimension	mm	1,560
Y Dimension	mm	1,300
Z Dimension	mm	150
Mass	kg	415

Figure 1 Pack Outline Drawing