TENER TECH		Title 4S3P Module Interface Specification (NE1200-025)			
	RESPONSIBLE	DATE	SIZE	DOCUMENT NO.	REV
AUTHORS			A4	P300-5165	00
USER			A4	F300-3103	00
RELEASE			MANUAL CHANGE PROHIBITED SHEET 1 OF 4		SHEET 1 OF 4

6S2P Module Interface Specification

NE1200-025, 22.2V, 120Ah

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TITLE	SIZE	DOCUMENT NO.	REV
System Interface Specification	A4 P300-5165 00		00
(NE1200-025)	MANUAL (SHEET 2 OF 4	

1. Module System Parameters

Specific parameters for the module are detailed in the chart below

Parameter	Units	Specification	Note	
Cell	Ah	60	ETI123100302 E60A	
Series	N/A	6	One Module	
Parallel	N/A	2	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	
Module Configuration				
Cell Element	Cell	12	element contains 12 cells (6S2P)	
Module Capacity (BOL)				
Rated	Ah	120	Calculated based on cell capacity	
Minimum	Ah	117.6	Calculated based on cell minimum capacity	
Module Capacity (EOL)	Module Capacity (EOL)			
Rated	Ah	84	Estimated at 70%	
Minimum	Ah	82.32	Calculated based on cell minimum capacity	
Module Voltage				
Max	V	25.2	Determined at maximum cell voltage	
Nom	V	22.2	Determined at nominal cell voltage	
Min	V	16.2	Determined at minimum cell voltage	
Module Energy				
Rated	kWh	2.66	Calculated value based on rated system capacit	
Minimum	kWh	2.61	Calculated value based on minimum capacity	
Usable (typical)	kWh	1.59	Estimated energy between 20% and 80% SOC, derated specific to system application	
Usable (max)	kWh	2.26	Estimated energy between 10% and 95% SOC, derated specific to system application	
Module Discharge Powe	er			
Continuous	kW	0.79	At nominal system voltage (36A*3.7V*6)	
Max	kW	5.33	At nominal system voltage (240A*3.7V*6)	
Peak	kW	7.99	At nominal system voltage (system/cell peak, duration less than 60s)	
Module Charge Power				
Continuous	kW	0.79	At nominal system voltage (36A*3.7V*6)	
Max	kW	2.66	At nominal system voltage (120A*3.7V*6)	
Peak	kW	4	At nominal system voltage (system/cell peak, duration less than 10s)	

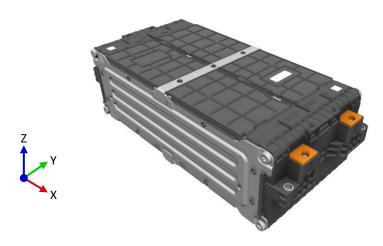
TITLE	SIZE	DOCUMENT NO.	REV
System Interface Specification	A4	P300-5165	00
(NE1200-025)	MANUAL (SHEET 3 OF 4	

Parameter	Units	Specification	Note	
Module Discharge Current				
Continuous	А	36	Continuous between 20% and 100% SOC, specific to system application	
Max	А	240	Continuous between 20% and 100% SOC (system maximum continuous)	
Peak	Α	360	Between 20% and 100% SOC (system/cell maximum surge, duration less than 60s)	
Module Charge Current				
Continuous	А	36	Continuous between 0% and 80% SOC, specific to system application	
Max	А	120	Continuous between 0% and 80% SOC (system maximum continuous)	
Peak	А	180	Between 0% and 80% SOC (system/cell maximum surge, duration less than 10s)	
Module Specification				
Mass	kg	Approx. 12.2	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	
		0 to 25 ≤1year	Range (cell min/max)	
Storage Temperature	Degrees °C	0 to 45 ≤3Month	Range (cell min/max)	
		-30 to 60 ≤1Month	Range (cell min/max)	

Table 1 - Product Technical Specifications

TITLE	SIZE	DOCUMENT NO.	REV
System Interface Specification	A4	P300-5165	00
(NE1200-025)	MANUAL CHANGE PROHIBITED		SHEET 4 OF 4

2. Mechanical Drawings



Parameter	Unit	Value
X Dimension	mm	360.0
Y Dimension	mm	165.0
Z Dimension	mm	109.5
Mass	kg	12.2

Figure 1 Module Outline Drawing