			Title		
			System Interface Specification (HOME BESS)		
	RESPONSIBLE	DATE	SIZE	DOCUMENT NO.	REV
AUTHORS			A4	P400-5110	00
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MANUAL CHANGE PROHIBITED					SHEET 1 OF 4


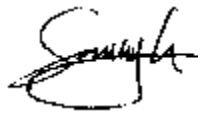
System Interface Specification

HOME BESS, 53.28kWh Battery System

Customer	Approved

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TITLE	SIZE	DOCUMENT NO.	REV
System Interface Specification (HOME BESS)	A4	P400-5110	00
	MANUAL CHANGE PROHIBITED		SHEET 2 OF 4

1. ESS Rack Parameters

Specific parameters for the Pack are detailed in the chart below

Parameter	Units	Specification	Note
Cell	Ah	60	ETI123100302 E60A
Series	N/A	120	One Rack
Parallel	N/A	2	One Rack
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
Rack Configuration			
Cell Element	Module	20	element contains 12 cells (6s2p)
Rack Capacity (BOL)			
Rated	Ah	120	Calculated based on cell capacity
Minimum	Ah	117.6	Calculated based on cell minimum capacity
Rack Capacity (EOL)			
Rated	Ah	84	Estimated at 70%
Minimum	Ah	82.32	Calculated based on cell minimum capacity with estimated at 70%
Rack Voltage			
Max	V	504	Determined at maximum Pack voltage
Nom	V	444	Determined at nominal Pack voltage
Min	V	324	Determined at minimum Pack voltage
Rack Energy			
Rated	kWh	53.28	Calculated value based on rated system capacity
Minimum	kWh	52.21	Calculated value based on minimum capacity
Usable (typical)	kWh	31.96	Estimated energy between 20% and 80% SOC, de-rated specific to system application
Usable (max)	kWh	45.28	Estimated energy between 10% and 95% SOC, de-rated specific to system application
Rack Discharge Power			
Continuous	kW	13.32	At nominal system voltage (30A*444)
Max	kW	26.64	At nominal system voltage (60A*444)
Peak	kW	N/A	-
Rack Charge Power			
Continuous	kW	13.32	At nominal system voltage (30A*444)
Max	kW	26.64	At nominal system voltage (60A*444)
Peak	kW	N/A	-
Rack Discharge Current			
Continuous	A	30	Continuous between 20% and 100% SOC, specific to system application
Max	A	60	Continuous between 20% and 100% SOC (system maximum continuous)
Peak	A	N/A	-
Rack Charge Current			

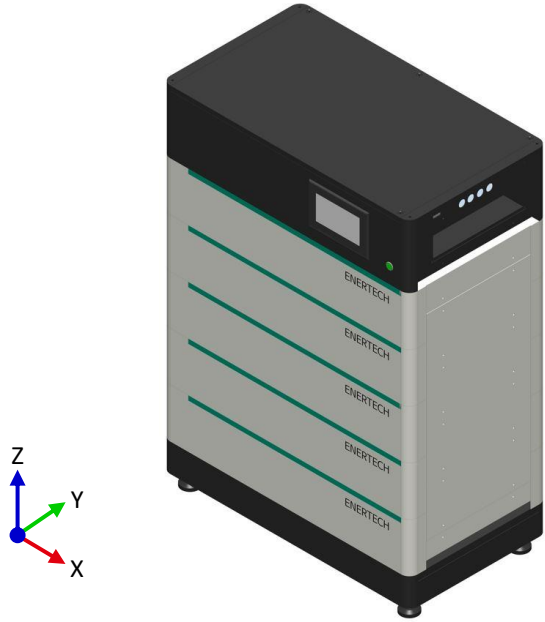
TITLE	SIZE	DOCUMENT NO.	REV
System Interface Specification (HOME BESS)	A4	P400-5110	00
	MANUAL CHANGE PROHIBITED		SHEET 3 OF 4

Parameter	Units	Specification	Note
Continuous	A	30	Continuous between 0% and 80% SOC, specific to system application
Max	A	60	Continuous between 0% and 80% SOC (system maximum continuous)
Peak	A	N/A	-
Pack Specification			
Mass	kg	Approx. 400	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

TITLE	SIZE	DOCUMENT NO.	REV
System Interface Specification (HOME BESS)	A4	P400-5110	00
	MANUAL CHANGE PROHIBITED		SHEET 4 OF 4

2. Mechanical Drawings



Parameter	Unit	Value
X Dimension	mm	880
Y Dimension	mm	492
Z Dimension	mm	1,250
Mass	kg	400

Figure 1 Rack Outline Drawing