

### Technical Schedules A and B for Lithium Iron Phosphate (LFP) Batteries

**Schedule A: Purchasers specific requirements**

**Schedule B: Guarantees and technical particulars of equipment offered**

1	2	3	4	5	6
Item	Description	Reference Doc.	Parameters	Schedule A	Schedule B
<b>1</b>	<b>Operating Environment</b>				
1.1	Altitude above sea level (e.g., 1000, 1600)	240-53114248 Cl. 3.4.1.1	m	50 - 500	
1.2	Extreme maximum temperature	240-53114248 Cl. 3.4.1.3	°C	50	
1.3	Extreme minimum temperature	240-53114248 Cl. 3.4.1.3	°C	-5	
1.4	Ambient air quality	DEAT: Air quality standards & objectives Cl. 3.1.7	Describe	Heavy	
1.5	Lightning	240-53114248 Cl. 3.4.1.1	Describe	High	
1.6	Relative humidity	240-53114248 Cl. 3.4.1.1	%	10% - 85%	
<b>2</b>	<b>Product Information</b>				
<b>2.1</b>	<b>LFP Information and Characteristics</b>				
2.1.1	OEM		OEM Name	xxxxxxxxxx	
2.1.2	OEM's factory location		Factory Location	xxxxxxxxxx	
2.1.3	OEM's product code		Specify Code	xxxxxxxxxx	
2.1.4	OEM drawing showcasing dimensions in metric units (include the drawing & revision number on the submission)		Drawing	xxxxxxxxxx	
2.1.5	Cell type		Specify	Prismatic	
2.1.6	Rated capacity	240-171000418 Cl. 3.5.3	Ah	Specify	
2.1.7	Wet weight mass	Specify	kg	OEM to indicate	
2.1.8	Discharge performance at +25 °C	240-170000103 Cl. 3.2.3	Specify	Refer to 240-170000103 Cl. 3.2.3	
2.1.9	Discharge performance at low temperature	240-170000103 Cl. 3.2.4	Specify	Refer to 240-170000103 Cl. 3.2.4	
2.1.10	High rate discharge permissible current	240-170000103 Cl. 3.2.5	Specify	Refer to 240-170000103 Cl. 3.2.5	
2.1.11	Fully charge state – under float		V	Specify	
2.1.12	Minimum voltage/LFP cell	240-170000103 Cl. 3.4.3.2	V	2.5	
2.1.13	Maximum voltage/LFP cell	240-170000103 Cl. 3.4.3.2	V	4.2	
2.1.14	Short-circuit current	240-53114248 Cl. 3.2.9	kA	OEM to indicate	
2.1.15	Internal resistance	240-53114248 Cl. 3.2.9	Ω	OEM to indicate	
2.1.16	Maximum allowable RMS ripple current and effect on battery life	240-53114248 Cl. 3.2.7	A	<5A/100Ah	
2.1.17	Maximum allowable RMS ripple voltage and effect on battery life	240-53114248 Cl. 3.2.6	mV	0.01 x Vnom	
<b>2.2</b>	<b>Product Warranty and Performance Guarantee</b>				
2.2.1	Expected life	KZNM202401 Cl. 3.5	Specify	10 Years	
2.2.2	End-of-life (EOL) capacity	240-171000418 Cl. 3.5.3	%	75	
2.2.3	Capacity loss	240-171000418 Cl. 3.5.3	%Ah/Year	1.33	
2.2.4	Number of cycles to EOL	240-171000418 Cl. 3.5.3	Specify	5000	
<b>2.3</b>	<b>Battery Management System</b>				
2.3.1	Undervoltage disconnect		Yes/No	Required	
2.3.2	Overvoltage protection		Yes/No	Required	
2.3.3	Over temperature shutdown		Yes/No	Required	
2.3.4	Short circuit protection		Yes/No	Required	
2.3.5	Cell balancing		Yes/No	Required	
<b>2.4</b>	<b>Transportation and Disposal</b>				
2.4.1	What transport company will be used for deliveries?		Specify	xxxxxxxxxx	
2.4.2	Do they have the necessary licensing to operate as a dangerous goods transporter?		Yes/No	xxxxxxxxxx	
2.4.3	What procedures are in place to manage field failures and ensure that these are effectively and timeously addressed.?		Specify	xxxxxxxxxx	

Tenderers Name: \_\_\_\_\_

2.4.4	What procedures are in place to manage field failures and ensure that these are effectively and timeously addressed.?		Specify	xxxxxxxx	
2.4.5	What recycling procedure is place to ensure that redundant equipment is recycled in an environmentally friendly manner?		Specify	xxxxxxxx	
<b>3</b>	<b>Documentation for Acceptance of LFP Batteries</b>				
3.1	Discharge test results		Present documentation	Required	
3.2	If not the OEM, a licensed OEM distributor agreement must be provided.		Present documentation	Required	
3.3	Installation manual		Present documentation	Required	
3.4	Product's recycling strategy		Present documentation	Required	
3.5	Operating and maintenance manual		Present documentation	Required	
3.6	Confirmation of Adherence to Testing and Standards for Solar PV and BESS Installation	Populate the letter titled "LTRLFP_ESKSTJ_003"	Present documentation	Required	

**BIDDER's SIGNATURE**

\_\_\_\_\_  
**Name (Print)**

\_\_\_\_\_  
**Company Name**

\_\_\_\_\_  
**Sign**

\_\_\_\_\_  
**Date**