

B – TECHNICAL SPECIFICATIONS

S.No.	TECHNICAL PARAMETERS	DESIRED SPECIFICATIONS / REQUIREMENTS & MARKS	BIDDER RESPONSE	REFERENCE DOCUMENT & PAGE NO.
	<i>(ALL PARAMETERS / SPECIFICATIONS ARE "HIGH" PRIORITY REQUIREMENTS)</i>		<i>(To be filled by the Bidder with yes/No or with any other related response))</i>	<i>(To be filled by the Bidder)</i>
A	Inverter			
1	GENERAL			
a)	TYPE & TOPOLOGY	Transformer less		
b)	POWER RATING	06 KW, 10 KW, 20 KW, 50 KW (@PF: 1.0):		
c)	Operating Temperature Range	-40 C to 65 C		
e)	Cooling Method	Natural Convection		
f)	Relative Humidity	0 to 100%		
g)	Protection Degree	IP65 or above		
h)	REMOTE MONITORING	Yes.		
2	INPUT			
a)	Max. Input Voltage	500V or above		
b)	Max. Current per MPPT	22A		
c)	Max. Short Circuit Current per MPPT	25A or above		
d)	MPPT Operating Voltage Range	140V to 450V DC		
3	OUTPUT			
a)	VOLTAGE & TOLERANCE @ 100% Load	230V $\leq \pm 5\%$:		
b)	Max. AC Active Power (cos $\phi=1$)	6000 W		
c)	FREQUENCY & TOLERANCE @ 100% Load	50Hz $< + 3\%$:		
d)	OVERLOAD PROTECTION	For 1 Min up to 110%		
B	Battery			
a)	Battery Type	Lithium-Ion Phosphate		
b)	Nominal Voltage (VDC)	48-51.2V DC		
c)	Amp ratings	100AH		
d)	Depth of Discharge	95%		
e)	IP rating	IP20 or Above`		
f)	Life cycles	>5000 at 25C		

4	EFFICIENCY			
a)	INVERTER MODE	96% to 98%		
6	CERTIFICATIONS / STANDARDS CONFORMANCE			
a)	SAFETY	IEC/EN 62040-1		
b)	EMC/EFI	IEC/EN 62040-2		
c)	PERFORMANCE	IEC/EN 62040-3		
d)	PROTECTION CLASS	IP20 or above		
B	PV MODULES			
a)	Rated Power	585W or above		
b)	Open Circuit Voltage	49.5V or above		
c)	Short Circuit Current	13.5A or above		
	Voltage at Maximum Power	41.5V or above		
	Current at Maximum Power	12.9A or above		
	Module Efficiency	>22%		
	Operating Temperature	-40 C to 85 C		
	Brand Type	Grade A, Tier One		
c	WARRANTIES & SUPPORT			
a)	Inverter	05 Years		
b)	PV modules	12 Years		
b)	Battery	5 Years		

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3)	OEM MANUFACTURING CONFIRMATION			
a)	Inverter	Active Production Line		

Equivalency of Standards and Codes

Wherever reference is made in the Technical Specifications to specific standards and codes to be met by the goods and materials to be furnished or tested, the provisions of the latest current edition or revision of the relevant shall apply, unless otherwise expressly stated in the Contract. Where such standards and codes are national or relate to a particular country or region, other authoritative standards that ensure substantial equivalence to the standards and codes specified will be acceptable.