

TECHNICAL SPECIFICATIONS AND OTHER ALLIED REQUIREMENTS

SI No.	Description of items	Quantity
PUR/607/ERT/AP/E/2019-20		
1.	On-Grid Solar Inverter, 11-13kW, 3-Phase with Remote Monitoring and Data- Logging Facility (Details are as per ANNEXURE-I)	01 No.

1. INSTALLATION/COMMISSIONING

1.1. NOT APPLICABLE

2. WARRANTY

2.1. Standard OEM warranty as applicable.

Annexure-I
On-Grid Solar Inverter, 11-13 kW, 3-Phase with Remote Monitoring and Data-Logging Facility

Sl. No.	Parameter/Protections	Specifications/Ratings
01	Model/Make	SMA/ABB/Delta or equivalent
Input Side		
02	Maximum DC Input Voltage	$\geq 900\text{VDC}$
03	No. of Independent MPPT	02 Nos.
04	Maximum DC power for each MPPT	6400-7000 W
05	DC input voltage range (for each MPPT)	Lower Range: $\leq 310\text{ VDC}$ Upper Range: $\geq 740\text{ VDC}$
06	Maximum DC input current	$\geq 33\text{Amp}$
07	DC connection type	MC4
08	Maximum input short circuit current for each MPPT	$\geq 21\text{Amp}$
09	Reverse polarity protection	Yes
10	Photovoltaic array isolation control	Yes
11	Input over voltage protection for each MPPT	02 (varistor)
Output Side		
12	AC grid connection type	Three phase, 4 wire
13	Rated AC power (at unity power factor)	10000W
14	Maximum AC output power (at unity power factor)	11000W
15	AC voltage range	Lower Range: $\leq 330\text{ V}$ Upper Range: $\geq 470\text{ V}$
16	Maximum AC output current ($I_{ac,max}$)	$\geq 15\text{Amp}$
17	Rated output frequency	50Hz
18	Output frequency range	48-52Hz
19	Total harmonic distortion	$\leq 2\%$
20	Anti-islanding protection	Yes
21	Maximum AC overcurrent protection	$\geq 18\text{Amp}$
22	Output overvoltage protection	03 (Varistor), in addition with gas arrester
Performance, Safety and Certifications		
23	Maximum efficiency	$\geq 97.5\%$
24	Remote Monitoring and data-Logging	Yes
25	Feed in power threshold	$\leq 30\text{W}$
26	Stand-by consumption	$\leq 12\text{W}$
27	Environmental protection rating	IP65/IP66
28	Cooling	Natural
29	Isolation level	Transformer less
30	Safety standard	EN62109-1, EN62109-2, CEI 0-21, CEI 0-16, VDE 0126-1-1, AS/NZS3100, AS/NZS 60950, EN61000-3-12.
31	Warranty	05 years, Onsite

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16/01/2020.