

F. No. 283/41/2024-GRID SOLAR
भारत सरकार / Government of India
नवीन और नवीकरणीय ऊर्जा मंत्रालय / Ministry of New & Renewable Energy
ग्रिड सौर ऊर्जा प्रभाग / Grid Solar Power Division

Atal Akshay Urja Bhawan,
Lodhi Road, New Delhi - 110003.

Dated: 08th July, 2024

OFFICE MEMORANDUM

Sub: Updation of List I (Manufacturers and Models of Solar PV Modules) of ALMM Order, 2019 - Reg.

Ref: (i) MNRE's O.M. No. 283/54/2018-GRID SOLAR-Part(1) dated 10.03.2021
(ii) MNRE's O.M. No. 283/22/2023-GRID SOLAR/Pt dated 10.05.2023;
(iii) MNRE's O.M. No. 283/22/2023-GRID SOLAR/Pt dated 22.03.2024;

Reference is invited to this Ministry's O.M.s of even no. dated 10.03.2021, regarding implementation of Approved Models and Manufacturers of Solar Photovoltaic Modules (Requirement for Compulsory Registration) Order, 2019 and publishing List - I (Manufacturers and Models of Solar PV Modules) of ALMM Order, 2019.

2. This Ministry vide its O.M. No. 283/22/2023-GRID SOLAR/Pt dated 10.05.2023 and O.M. of even no. dated 22.03.2024 inter-alia directed that only such models of Solar PV Module Manufacturers will be enlisted under ALMM, which comply with the BIS Standards and are having the following minimum module efficiency:

Category	Application/ Use	Minimum Module Efficiency requirement for crystalline-Silicon technology based Solar PV Modules	Minimum Module Efficiency requirement for Cadmium Telluride Thin Film technology based Solar PV Modules
Category I	Utility / Grid Scale Power Plants	20.0%	19.00%
Category II	Rooftop and Solar Pumping	19.5%	18.50%
Category III	Solar Lighting	19.0%	18.00%

3. Post the O.M. dated 10.05.2023 and subsequent O.M. dated 22.03.2024, only such models of Solar PV Modules have been considered for enlistment under ALMM List-I, whose module efficiency is meeting the eligibility criteria as mentioned in table at para-2 above.

4. The List - I (Manufacturers and Models of Solar PV Modules) of ALMM Order, 2019 was last updated on 24.05.2024.

5. The List - I (Manufacturers and Models of Solar PV Modules) of ALMM Order, 2019 is hereby further revised and the Revision-XXVI of same is enclosed at Annexure-I. The details of provisional enlistments granted by MNRE in ALMM List-I are at pages after Annexure-I.

6. The ALMM enlistment validity is subject to valid BIS Registration; else deemed to be delisted.

7. The details of Registration No. (R. No.) which has been allotted by BIS is mentioned against each manufacturer / manufacturing unit enlisted in ALMM and further details related to BIS certification like validity, models included, etc. may be checked from BIS website by using the following link:
https://www.crsbis.in/BIS/Lims_registration.do?hmode=getLimsData

8. This issues with the approval of competent authority.



(Sanjay G. Karndhar)
Scientist-E

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Encl: as above

To: All Concerned

Copy to: Director (Technical), NIC, MNRE for uploading this document on MNRE's website

List of Manufacturers and Models of Solar PV Modules Enlisted under ALMM Order (As on 08.07.2024)

S. No.	Name of the Manufacturer	Location of Manufacturing Facility	BIS Registration No.	Enlisted Capacity (MWs / Year)	S. No.	Type of Module	Applied Model	Enlisted Models	Module Efficiency (%)	No. of Cells in Module	System Voltage (in Volt)	Validity	
												From	To (subject to valid BIS Registration; else deemed to be delisted)
1	Emmvee Photovoltaic Power Pvt. Ltd.	#13/1, International Airport Road (Bellary Road), Bettahalasuru Post, Bengaluru-562157, Karnataka	R-62001074	512	i	Mono C-Si PERC Modules	E390M72 (390 Wp)	E385M72 E390M72 E395M72	19.20 19.45 19.70	72 (Full Cells)	1500	10.03.2023	09.03.2027
					ii	Mono C-Si PERC Modules	E325M60 (325 Wp)	E320M60 E325M60 E330M60	19.04 19.34 19.64	60 (Full Cells)	1500	10.03.2023	09.03.2027
2	M/s Sova Solar Ltd.	Layout Plot No: 25, E.P.I.P, Banskopa, Durgapur 713212, West Bengal, India.	R-51000590	532	i	Mono C-Si PERC Modules	SS535144HCMP (535Wp)	SS520144HCMP SS525144HCMP SS530144HCMP SS535144HCMP SS540144HCMP SS545144HCMP SS550144HCMP SS555144HCMP	20.16 20.35 20.54 20.74 20.93 21.13 21.32 21.51	144 (Half-Cut Cells)	1500	10.03.2023	09.03.2027
					ii	Mono C-Si PERC Bifacial Modules	SS535144HCBP (535Wp)	SS520144HCBP SS525144HCBP SS530144HCBP SS535144HCBP SS540144HCBP SS545144HCBP SS550144HCBP SS555144HCBP	20.16 20.35 20.54 20.74 20.93 21.13 21.32 21.51	144 (Half-Cut Cells)	1500	10.03.2023	09.03.2027
3	M/s Solex Energy Ltd	Plot No. 131/A Phase-1, G.I.D.C, Vitthal Udyog Nagar, Anand, Gujarat	R-72002577	21	i	Mono C-Si PERC Modules	SESM24375 (375 Wp)	SESM24370 SESM24375 SESM24380	19.04 19.30 19.55	72 (Full Cells)	1000	10.03.2023	09.03.2027
					ii	Mono C-Si PERC Modules	SES20CM120W320 (320 Wp)	SES20CM120W320	19.21	120 (Half Cells)	1000	10.03.2023	09.03.2027
					iii	Mono C-Si PERC Modules	SES24CM144W380 (380 Wp)	SES24CM144W375 SES24CM144W380 SES24CM144W385	19.01 19.30 19.51	144 (Half Cells)	1000	10.03.2023	09.03.2027
4	Saatvik Green Energy Pvt. Ltd.	Village Dubli, Tehsil- Barara, Dist- Ambala -133101, Haryana	R-91003670	566	i	Mono C-Si PERC Modules	SGE 190-36M (190 Wp)	SGE 190-36M	19.11	36 (Full Cells)	1000	10.03.2023	09.03.2027
					ii	Mono C-Si PERC Modules	SGE 255-48M (255 Wp)	SGE 255-48M	19.37	48 (Full Cells)	1000	10.03.2023	09.03.2027
					iii	Mono C-Si PERC Modules	SGE 285-54M (285 Wp)	SGE 280-54M SGE 285-54M	19.15 19.49	54 (Full Cells)	1000	10.03.2023	09.03.2027
					iv	Mono C-Si PERC Modules	SGE 315-60M (315 Wp)	SGE 310-60M SGE 315-60M	19.08 19.41	60 (Full Cells)	1500	10.03.2023	09.03.2027
					v	Mono C-Si PERC Modules	SGE 375-72M (375 Wp)	SGE 370-72M SGE 375-72M SGE 380-72M	19.09 19.35 19.61	72 (Full Cells)	1500	10.03.2023	09.03.2027
					vi	Mono C-Si PERC Modules	SGE570-156MHC, (570 Wp)	SGE555-156MHC SGE560-156MHC SGE565-156MHC SGE570-156MHC SGE575-156MHC SGE580-156MHC SGE585-156MHC SGE590-156MHC	19.78 19.96 20.14 20.32 20.50 20.67 20.85 21.03	156 (Half Cut Cells)	1500	10.03.2023	09.03.2027
					vii	Mono C-Si PERC Modules	SGE530-144MHC, (530 Wp)	SGE520-144MHC SGE525-144MHC SGE530-144MHC SGE535-144MHC SGE540-144MHC SGE545-144MHC SGE550-144MHC	20.13 20.32 20.52 20.70 20.90 21.10 21.29	144 (Half Cut Cells)	1500	10.03.2023	09.03.2027
					viii	Mono C-Si PERC Modules	SGE485-132MHC, (485 Wp)	SGE470-132MHC SGE475-132MHC SGE480-132MHC SGE485-132MHC SGE490-132MHC SGE495-132MHC SGE500-132MHC SGE420-120MHC	19.78 20.01 20.23 20.41 20.63 20.84 21.05 19.37	132 (Half Cut Cells)	1500	10.03.2023	09.03.2027

S. No.	Name of the Manufacturer	Location of Manufacturing Facility	BIS Registration No.	Enlisted Capacity (MWs / Year)	S. No.	Type of Module	Applied Model	Enlisted Models	Module Efficiency (%)	No. of Cells in Module	System Voltage (in Volt)	Validity	
												From	To (subject to valid BIS Registration; else deemed to be delisted)
					ix	Mono C-Si PERC Modules	SGE440-120MHC, (440 Wp)	SGE425-120MHC	19.60	120 (Half Cut Cells)	1500	10.03.2023	09.03.2027
								SGE430-120MHC	19.83				
								SGE435-120MHC	20.06				
								SGE440-120MHC	20.29				
								SGE445-120MHC	20.52				
								SGE450-120MHC	20.76				
					x	Mono C-Si PERC Modules	SGE395-108MHC, (395 Wp)	SGE455-120MHC	20.99	108 (Half Cut Cells)	1500	10.03.2023	09.03.2027
								SGE380-108MHC	19.44				
								SGE385-108MHC	19.69				
								SGE390-108MHC	19.95				
								SGE395-108MHC	20.20				
								SGE400-108MHC	20.46				
					xi	Mono C-Si PERC Modules	SGE 395-72M, (395 Wp)	SGE405-108MHC	20.71	72 (Full Cell)	1500	10.03.2023	09.03.2027
								SGE410-108MHC	20.98				
								SGE 385-72M	19.22				
								SGE 390-72M	19.47				
								SGE 395-72M	19.72				
								SGE 400-72M	19.97				
5	Navitas Green Solutions Pvt. Ltd.	Plot No. B-20/3, Road No. 13, 14, Palsana-Baleshwar Rd, Hoziwala Industrial Estate, Sachin, Surat-394230, Gujarat	R-72003140	250	i	Mono C-Si PERC Modules	NSM375 (375 Wp)	NSM370	19.07	72 (Full Cells)	1500	10.03.2023	09.03.2027
								NSM375	19.33				
								NSM380	19.58				
					ii	Mono C-Si PERC Modules	NSM320-60 (320 Wp)	NSM310-60	19.09	60 (Full Cells)	1500	10.03.2023	09.03.2027
								NSM315-60	19.40				
								NSM320-60	19.71				
								NSM325-60	20.02				
								NSM330-60	20.33				
					iii	Mono C-Si PERC Modules	NSM350-66 (350 Wp)	NSM340-66	19.03	66 (Full Cells)	1500	10.03.2023	09.03.2027
								NSM345-66	19.31				
								NSM350-66	19.59				
					iv	Mono PERC C-Si Module	NSM580-156 (580 Wp)	NSM355-66	19.87	156 (Half Cut Cells)	1500	10.03.2023	09.03.2027
NSM570-156	20.39												
NSM575-156	20.57												
NSM580-156	20.74												
v	Mono PERC C-Si Module	NSM540-144 (540 Wp)	NSM585-156	20.92	144 (Half Cut Cells)	1500	10.03.2023	09.03.2027					
			NSM525-144	20.32									
			NSM530-144	20.51									
			NSM535-144	20.71									
			NSM540-144	20.90									
			NSM545-144	21.09									
			NSM550-144	21.29									
			NSM555-144	21.48									
			NSM560-144	21.67									
			NSM480-132	20.21									
vi	Mono PERC C-Si Module	NSM500-132 (500 Wp)	NSM485-132	20.42	132 (Half Cut Cells)	1500	10.03.2023	09.03.2027					
			NSM490-132	20.64									
			NSM495-132	20.85									
			NSM500-132	21.06									
			NSM435-120	20.09									
vii	Mono PERC C-Si Module	NSM445-120 (445 Wp)	NSM440-120	20.33	120 (Half Cut Cells)	1500	10.03.2023	09.03.2027					
			NSM445-120	20.56									
			NSM450-120	20.79									
			NSM455-120	21.02									
			NSM390-108	19.96									
viii	Mono PERC C-Si Module	NSM400-108 (400 Wp)	NSM395-108	20.21	108 (Half Cut Cells)	1500	10.03.2023	09.03.2027					
			NSM400-108	20.47									
			NSM405-108	20.72									
			NSM410-108	20.98									
			NSM350-96	20.06									
ix	Mono PERC C-Si Module	NSM360-96 (360 Wp)	NSM355-96	20.35	96 (Half Cut Cells)	1500	10.03.2023	09.03.2027					
			NSM360-96	20.64									
			NSM365-96	20.92									
			NSM260-72	19.62									
x	Mono PERC C-Si Module	NSM270-72 (270 Wp)	NSM265-72	20.00	72 (Half Cut Cells)	1500	10.03.2023	09.03.2027					
			NSM270-72	20.38									
			NSM275-72	20.76									
			NSM460-156	19.65									
xi	Mono PERC C-Si Module	NSM470-156 (470 Wp)	NSM465-156	19.86	156 (Half Cut Cells)	1500	10.03.2023	09.03.2027					
			NSM470-156	20.07									
			NSM475-156	20.29									

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												From	To (subject to valid BIS Registration; else deemed to be delisted)
								JP-H405M	20.37				
								JH-380M	19.28				
								JH-385M	19.53				
								JH-390M	19.79				
					vi	Mono C-Si PERC Modules	JH-400M, (400Wp)	JH-395M	20.04	108 (Half-Cut Cells)	1500	17.08.2023	16.08.2027
								JH-400M	20.29				
								JH-405M	20.55				
								JH-410M	20.88				
								JH-415M	21.06				
								JH-380BB	19.48				
								JH-385BB	19.73				
					vii	Mono c-Si Bifacial PERC Module	JH-400BB	JH-390BB	19.99	108 (Half Cut Cells)	1500	17.08.2023	16.08.2027
								JH-395BB	20.25				
								JH-400BB	20.50				
								JH-405BB	20.76				
								JH-410BB	21.01				
								JH-415BB	21.27				
								JH-420BB	19.39				
								JH-425BB	19.62				
								JH-430BB	19.85				
					viii	Mono c-Si Bifacial PERC Module	JH-440BB	JH-435BB	20.08	120 (Half Cut Cells)	1500	17.08.2023	16.08.2027
								JH-440BB	20.31				
								JH-445BB	20.54				
								JH-450BB	20.77				
								JH-455BB	21.00				
								JH-460BB	21.23				
								JH-475BB	20.02				
								JH-480BB	20.23				
								JH-485BB	20.44				
					ix	Mono c-Si Bifacial PERC Module	JH-490BB	JH-490BB	20.65	132 (Half Cut Cells)	1500	17.08.2023	16.08.2027
								JH-495BB	20.86				
								JH-500BB	21.07				
								JH-505BB	21.29				
								JH-510BB	21.50				
								JH-515BB	21.71				
								JH-520BB	20.15				
								JH-525BB	20.34				
								JH-530BB	20.53				
								JH-535BB	20.73				
					x	Mono c-Si Bifacial PERC Module	JH-535BB	JH-540BB	20.92	144 (Half Cut Cells)	1500	17.08.2023	16.08.2027
								JH-545BB	21.11				
								JH-550BB	21.31				
								JH-555BB	21.50				
								JH-380BT	19.48				
								JH-385BT	19.73				
								JH-390BT	19.99				
								JH-395BT	20.25				
								JH-400BT	20.50				
								JH-405BT	20.76				
								JH-410BT	21.01				
								JH-415BT	21.27				
								JH-420BT	19.39				
								JH-425BT	19.62				
								JH-430BT	19.85				
								JH-435BT	20.08				
								JH-440BT	20.31				
								JH-445BT	20.54				
								JH-450BT	20.77				
								JH-455BT	21.00				
								JH-460BT	21.23				
								JH-475BT	20.02				
								JH-480BT	20.23				
								JH-485BT	20.44				
								JH-490BT	20.65				
								JH-495BT	20.86				
								JH-500BT	21.07				
								JH-505BT	21.29				
								JH-510BT	21.50				
								JH-515BT	21.71				
								JH-520BT	20.15				
								JH-525BT	20.34				
								JH-530BT	20.53				

S. No.	Name of the Manufacturer	Location of Manufacturing Facility	BIS Registration No.	Enlisted Capacity (MWs / Year)	S. No.	Type of Module	Applied Model	Enlisted Models	Module Efficiency (%)	No. of Cells in Module	System Voltage (in Volt)	Validity						
												From	To (subject to valid BIS Registration; else deemed to be delisted)					
					xiv	Mono c-Si Bifacial PERC Module	JH-535BT	JH-535BT	20.73	144 (Half Cut Cells)	1500	17.08.2023	16.08.2027					
								JH-540BT	20.92									
								JH-545BT	21.11									
								JH-550BT	21.31									
					xv	Mono c-Si Bifacial PERC Module	JH-400BW	JH-555BT	21.50	108 (Half Cut Cells)	1500	17.08.2023	16.08.2027					
								JH-380BW	19.48									
								JH-385BW	19.73									
								JH-390BW	19.99									
								JH-395BW	20.25									
								JH-400BW	20.50									
								JH-405BW	20.76									
								JH-410BW	21.01									
					xvi	Mono c-Si Bifacial PERC Module	JH-440BW	JH-415BW	21.27	120 (Half Cut Cells)	1500	17.08.2023	16.08.2027					
								JH-420BW	19.39									
								JH-425BW	19.62									
								JH-430BW	19.85									
								JH-435BW	20.08									
								JH-440BW	20.31									
								JH-445BW	20.54									
								JH-450BW	20.77									
					xvii	Mono c-Si Bifacial PERC Module	JH-490BW	JH-455BW	21.00	132 (Half Cut Cells)	1500	17.08.2023	16.08.2027					
								JH-460BW	21.23									
								JH-475BW	20.02									
								JH-480BW	20.23									
JH-485BW	20.44																	
JH-490BW	20.65																	
JH-495BW	20.86																	
JH-500BW	21.07																	
xviii	Mono c-Si Bifacial PERC Module	JH-535BW	JH-505BW	21.29	144 (Half Cut Cells)	1500	17.08.2023	16.08.2027										
			JH-510BW	21.50														
			JH-515BW	21.71														
			JH-520BW	20.15														
			JH-525BW	20.34														
			JH-530BW	20.53														
			JH-535BW	20.73														
			JH-540BW	20.92														
7	Insolation Energy Pvt. Ltd	Khasra No 766/2, Vill-Bagwara, Teh-Amer Jaipur, Rajasthan	R-84002330	174	i	Mono c-Si PERC Module	INA72MP375	INA72MP375	19.23	72 (Full Cells)	1500	29.09.2023	28.09.2027					
								INA72MP395	19.80									
					ii	Mono c-Si PERC Module	INA72MP385	INA72MP390	19.55	72 (Full Cells)	1500	29.09.2023	28.09.2027					
								INA72MP385	19.30									
					8	Gautam Solar Pvt. Ltd.	Plot No-67-70, Sector-8A IIE, Sidcul Haridwar- 249403, Uttarakhand	R-83006041	710	i	Mono c-Si PERC Modules	G2XBifacial1767-HAE (590 Wp) (565Wp-595Wp)	INA72MP380	19.05	156 (Half Cut Cells)	1500	29.09.2023	28.09.2027
													G2XBifacial1734-HAE	20.20				
													G2XBifacial1741-HAE	20.38				
													G2XBifacial1747-HAE	20.56				
													G2XBifacial1754-HAE	20.74				
													G2XBifacial1760-HAE	20.92				
													G2XBifacial1767-HAE	21.10				
													G2XBifacial1773-HAE	21.28				
										ii	Mono c-Si PERC Modules	G2XBifacial1695-HAD (535 Wp) (510Wp-550Wp)	G2XBifacial1663-HAD	19.74	144 (Half Cut Cells)	1500	29.09.2023	28.09.2027
													G2XBifacial1669-HAD	19.94				
													G2XBifacial1676-HAD	20.13				
													G2XBifacial1682-HAD	20.32				
													G2XBifacial1689-HAD	20.52				
													G2XBifacial1695-HAD	20.71				
													G2XBifacial1702-HAD	20.90				
													G2XBifacial1708-HAD	21.10				
										iii	Mono c-Si PERC Modules	G2XBifacial1643-HAB (495 Wp) (485Wp-505Wp)	G2XBifacial1715-HAD	21.29	132 (Half Cut Cells)	1500	29.09.2023	28.09.2027
													G2XBifacial1656-HAB	21.13				
													G2XBifacial1650-HAB	20.92				
													G2XBifacial1643-HAB	20.71				
G2XBifacial1637-HAB	20.50																	
G2XBifacial1630-HAB	20.29																	
G2XBifacial1598-HAA	21.09																	
G2XBifacial1591-HAA	20.87																	
iv	Mono c-Si PERC Modules	G2XBifacial1585-HAA (450 Wp) (440Wp-460Wp)	G2XBifacial1578-HAA	20.41	120 (Half Cut Cells)	1500	29.09.2023	28.09.2027										
			G2XBifacial1572-HAA	20.18														
			G2XBifacial1585-HAA	20.64														
			G2XBifacial1578-HAA	20.41														
			G2XBifacial1572-HAA	20.18														
			G2XBifacial1585-HAA	20.64														
			G2XBifacial1578-HAA	20.41														
			G2XBifacial1572-HAA	20.18														

S. No.	Name of the Manufacturer	Location of Manufacturing Facility	BIS Registration No.	Enlisted Capacity (MWs / Year)	S. No.	Type of Module	Applied Model	Enlisted Models	Module Efficiency (%)	No. of Cells in Module	System Voltage (in Volt)	Validity	
												From	To (subject to valid BIS Registration; else deemed to be delisted)
					v	Mono c-Si PERC Modules	G2XBifacial1526-HAY (405 Wp) (390Wp-415Wp)	G2XBifacial1539-HAY 21.06 G2XBifacial1533-HAY 20.80 G2XBifacial1526-HAY 20.55 G2XBifacial1520-HAY 20.30 G2XBifacial1507-HAY 19.79		108 (Half Cut Cells)	1500	29.09.2023	28.09.2027
					vi	Mono c-Si PERC Modules	G2XBifacial1468-HAX (360 Wp) (365Wp-350Wp)	G2XBifacial1474-HAX 20.71 G2XBifacial1468-HAX 20.43 G2XBifacial1461-HAX 20.14 G2XBifacial1455-HAX 19.86		96 (Half Cut Cells)	1500	29.09.2023	28.09.2027
					vii	Mono c-Si PERC Modules	G2X590-HAE (590 Wp)	G2X565-HAE 20.20 G2X570-HAE 20.38 G2X575-HAE 20.56 G2X580-HAE 20.74 G2X585-HAE 20.92 G2X590-HAE 21.10 G2X595-HAE 21.28		156 (Half Cut Cells)	1500	29.09.2023	28.09.2027
					viii	Mono c-Si PERC Modules	G2X530-HAD (530 Wp)	G2X510-HAD 19.74 G2X515-HAD 19.94 G2X520-HAD 20.13 G2X525-HAD 20.32 G2X530-HAD 20.52 G2X535-HAD 20.71 G2X540-HAD 20.90 G2X545-HAD 21.10 G2X550-HAD 21.29		144 (Half Cut Cells)	1500	29.09.2023	28.09.2027
					ix	Mono c-Si PERC Modules	G2X495-HAB (495 Wp)	G2X505-HAB 21.13 G2X500-HAB 20.92 G2X495-HAB 20.71 G2X490-HAB 20.50 G2X485-HAB 20.29		132 (Half Cut Cells)	1500	29.09.2023	28.09.2027
					x	Mono c-Si PERC Modules	G2X450-HAA (450 Wp)	G2X460-HAA 21.09 G2X455-HAA 20.87 G2X450-HAA 20.64 G2X445-HAA 20.41 G2X440-HAA 20.18		120 (Half Cut Cells)	1500	29.09.2023	28.09.2027
					xi	Mono c-Si PERC Modules	G2X405-HAY (405 Wp)	G2X415-HAY 21.06 G2X410-HAY 20.80 G2X405-HAY 20.55 G2X400-HAY 20.30 G2X390-HAY 19.79		108 (Half Cut Cells)	1500	29.09.2023	28.09.2027
					xii	Mono c-Si PERC Modules	G2X360-HAX (360 Wp)	G2X365-HAX 20.71 G2X360-HAX 20.43 G2X355-HAX 20.14 G2X350-HAX 19.86		96 (Half Cut Cells)	1500	29.09.2023	28.09.2027
					xiii	Mono c-Si PERC Modules	GS-420-AAA (420 Wp)	GS-410-AAA 19.03 GS-415-AAA 19.26 GS-420-AAA 19.49 GS-425-AAA 19.72 GS-430-AAA 19.95		78 (Full Cells)	1500	29.09.2023	28.09.2027
					xiv	Mono c-Si PERC Modules	GS-400-AAB (400 Wp)	GS-380-AAB 19.13 GS-385-AAB 19.39 GS-390-AAB 19.64 GS-395-AAB 19.89 GS-400-AAB 20.14 GS-405-AAB 20.39 GS-410-AAB 20.64 GS-415-AAB 20.90 GS-420-AAB 21.15		72 (Full Cells)	1500	29.09.2023	28.09.2027
					xv	Mono c-Si PERC Modules	GS-360-AAC (360 Wp)	GS-350-AAC 19.13 GS-355-AAC 19.40 GS-360-AAC 19.67 GS-365-AAC 19.95 GS-320-AAD 19.16		66 (Full Cells)	1500	29.09.2023	28.09.2027
					xvi	Mono c-Si PERC Modules	GS-330-AAD (330 Wp)	GS-325-AAD 19.46 GS-330-AAD 19.76 GS-335-AAD 20.06 GS-290-AAE 19.21		60 (Full Cells)	1500	29.09.2023	28.09.2027

S. No.	Name of the Manufacturer	Location of Manufacturing Facility	BIS Registration No.	Enlisted Capacity (MWs / Year)	S. No.	Type of Module	Applied Model	Enlisted Models	Module Efficiency (%)	No. of Cells in Module	System Voltage (in Volt)	Validity	
												From	To (subject to valid BIS Registration; else deemed to be delisted)
					xvii	Mono c-Si PERC Modules	GS-295-AAE (295 Wp)	GS-295-AAE GS-300-AAE	19.54 19.87	54 (Full Cells)	1500	29.09.2023	28.09.2027
					xviii	Mono c-Si PERC Modules	GS-260-AAF (260 Wp)	GS-260-AAF GS-265-AAF	19.26 19.63	48 (Full Cells)	1500	29.09.2023	28.09.2027
					xix	Mono c-Si PERC Modules	GS-230-AAG (230 Wp)	GS-230-AAG	19.33	42 (Full Cells)	1500	29.09.2023	28.09.2027
					xx	Mono c-Si PERC Modules	GS-200-AAH (200 Wp)	GS-195-AAH GS-200-AAH GS-205-AAH GS-210-AAH G2X590-HAD G2X1767-UHAD G2X588-HAD G2X587-HAD G2X1758T-UHAD G2X585-HAD G2X1752-UHAD G2X583-HAD G2X582-HAD G2X1743T-UHAD G2X580-HAD G2X1737-UHAD G2X578-HAD G2X577-HAD G2X1728T-UHAD G2X575-HAD G2X1722-UHAD G2X573-HAD G2X572-HAD G2X1713T-UHAD G2X570-HAD G2X1707-UHAD G2X568-HAD G2X567-HAD G2X1698T-UHAD G2X565-HAD G2X1692-UHAD G2X563-HAD G2X562-HAD G2X1683T-UHAD G2X560-HAD G2X1677-UHAD G2X558-HAD G2X557-HAD G2X1668T-UHAD G2X555-HAD G2X1662-UHAD G2X553-HAD G2X552-HAD G2X1653T-UHAD	19.26 19.75 20.25 20.74 22.82 22.78 22.74 22.70 22.66 22.63 22.59 22.55 22.51 22.47 22.43 22.39 22.36 22.32 22.28 22.24 22.20 22.16 22.12 22.08 22.05 22.01 21.97 21.93 21.89 21.85 21.81 21.78 21.74 21.70 21.66 21.62 21.58 21.54 21.50 21.47 21.43 21.39 21.35 21.31	36 (Full Cells)	1500	29.09.2023	28.09.2027
					xxi	N-Type TOPCon Module	G2X575-HAD (575Wp) (551Wp-590Wp)	G2X1743T-UHAD G2X580-HAD G2X1737-UHAD G2X578-HAD G2X577-HAD G2X1728T-UHAD G2X575-HAD G2X1722-UHAD G2X573-HAD G2X572-HAD G2X1713T-UHAD G2X570-HAD G2X1707-UHAD G2X568-HAD G2X567-HAD G2X1698T-UHAD G2X565-HAD G2X1692-UHAD G2X563-HAD G2X562-HAD G2X1683T-UHAD G2X560-HAD G2X1677-UHAD G2X558-HAD G2X557-HAD G2X1668T-UHAD G2X555-HAD G2X1662-UHAD G2X553-HAD G2X552-HAD G2X1653T-UHAD	22.08 22.05 22.01 21.97 21.93 21.89 21.85 21.81 21.78 21.74 21.70 21.66 21.62 21.58 21.54 21.50 21.47 21.43 21.39 21.35 21.31	144 (Half Cut Cells)	1500	29.09.2023	28.09.2027
					xxii	N-Type TOPCon Module	G2X480-HAA (480 Wp) (461Wp-495Wp)	G2X495-HAA G2X1482-UHAA G2X493-HAA G2X492-HAA G2X1473T-UHAA G2X490-HAA G2X1467-UHAA G2X488-HAA G2X487-HAA G2X1458T-UHAA G2X485-HAA G2X1452-UHAA G2X483-HAA G2X482-HAA G2X1443T-UHAA G2X480-HAA G2X1437-UHAA G2X478-HAA G2X477-HAA G2X1428T-UHAA	22.70 22.65 22.61 22.56 22.52 22.47 22.42 22.38 22.33 22.29 22.24 22.19 22.15 22.10 22.06 22.01 21.97 21.92 21.87 21.83	120 (Half Cut Cells)	1500	29.09.2023	28.09.2027

S. No.	Name of the Manufacturer	Location of Manufacturing Facility	BIS Registration No.	Enlisted Capacity (MWs / Year)	S. No.	Type of Module	Applied Model	Enlisted Models	Module Efficiency (%)	No. of Cells in Module	System Voltage (in Volt)	Validity	
												From	To (subject to valid BIS Registration; else deemed to be delisted)
					xxiii	N-Type TOPCon Module	G2X430-HAY (430 Wp) (416Wp-450Wp)	G2X475-HAA	21.78	108 (Half Cut Cells)	1500	29.09.2023	28.09.2027
								G2X1422-UHAA	21.74				
								G2X473-HAA	21.69				
								G2X472-HAA	21.64				
								G2X1413T-UHAA	21.60				
								G2X470-HAA	21.55				
								G2X1407-UHAA	21.51				
								G2X468-HAA	21.46				
								G2X467-HAA	21.42				
								G2X1398T-UHAA	21.37				
								G2X465-HAA	21.32				
								G2X1392-UHAA	21.28				
								G2X463-HAA	21.23				
								G2X462-HAA	21.19				
								G2X1383T-UHAA	21.14				
								G2X450-HAY	22.83				
								G2X1347-UHAY	22.78				
								G2X448-HAY	22.73				
								G2X447-HAY	22.68				
								G2X1338T-UHAY	22.63				
								G2X445-HAY	22.58				
								G2X1332-UHAY	22.53				
								G2X443-HAY	22.48				
								G2X442-HAY	22.43				
								G2X1323T-UHAY	22.38				
								G2X440-HAY	22.32				
								G2X1317-UHAY	22.27				
								G2X438-HAY	22.22				
								G2X437-HAY	22.17				
								G2X1308T-UHAY	22.12				
								G2X435-HAY	22.07				
								G2X1302-UHAY	22.02				
								G2X433-HAY	21.97				
					G2X432-HAY	21.92							
					G2X1293T-UHAY	21.87							
					G2X430-HAY	21.82							
					G2X1287-UHAY	21.77							
					G2X428-HAY	21.72							
					G2X427-HAY	21.67							
					G2X1278T-UHAY	21.61							
					G2X425-HAY	21.56							
					G2X1272-UHAY	21.51							
					G2X423-HAY	21.46							
					G2X422-HAY	21.41							
					G2X1263T-UHAY	21.36							
					G2X420-HAY	21.31							
					G2X1257-UHAY	21.26							
					G2X418-HAY	21.21							
					G2X417-HAY	21.16							
					G2X1248T-UHAY	21.11							
					G2G1770-HAD	22.82							
					G2G1767-UHAD	22.78							
					G2G1764N-UHAD	22.74							
					G2G1761B-UHAD	22.70							
					G2G1758NB-UHAD	22.66							
					G2G1755-HAD	22.63							
					G2G1752-UHAD	22.59							
					G2G1749N-UHAD	22.55							
					G2G1746B-UHAD	22.51							
					G2G1743NB-UHAD	22.47							
					G2G1740-HAD	22.43							
					G2G1737-UHAD	22.39							
					G2G1734N-UHAD	22.36							
					G2G1731B-UHAD	22.32							
					G2G1728NB-UHAD	22.28							
					G2G1725-HAD	22.24							
					G2G1722-UHAD	22.20							
					G2G1719N-UHAD	22.16							
					G2G1716B-UHAD	22.12							
					G2G1713NB-UHAD	22.08							
					G2G1710-HAD	22.05							
					G2G1707-UHAD	22.01							
					xxiv	Bifacial N-Type TOPCon Module (Glass to Glass)	G2G1740-HAD (580WP) (567Wp - 590Wp)	G2G1740-HAD	22.43	144 (Half Cut Cells)	1500	29.09.2023	28.09.2027
								G2G1737-UHAD	22.39				
								G2G1734N-UHAD	22.36				
								G2G1731B-UHAD	22.32				
								G2G1728NB-UHAD	22.28				
								G2G1725-HAD	22.24				
								G2G1722-UHAD	22.20				
								G2G1719N-UHAD	22.16				
								G2G1716B-UHAD	22.12				
								G2G1713NB-UHAD	22.08				
								G2G1710-HAD	22.05				
								G2G1707-UHAD	22.01				

S. No.	Name of the Manufacturer	Location of Manufacturing Facility	BIS Registration No.	Enlisted Capacity (MWs / Year)	S. No.	Type of Module	Applied Model	Enlisted Models	Module Efficiency (%)	No. of Cells in Module	System Voltage (in Volt)	Validity	
												From	To (subject to valid BIS Registration; else deemed to be delisted)
								G2G1704N-UHAD	21.97				
								G2G1701B-UHAD	21.93				
								G2G1635-HAB	22.80				
								G2G1632-UHAB	22.76				
								G2G1629N-UHAB	22.72				
								G2G1626B-UHAB	22.67				
								G2G1623NB-UHAB	22.63				
								G2G1620-HAB	22.59				
								G2G1617-UHAB	22.55				
								G2G1614N-UHAB	22.51				
								G2G1611B-UHAB	22.46				
								G2G1608NB-UHAB	22.42				
								G2G1605-HAB	22.38				
								G2G1602-UHAB	22.34				
								G2G1599N-UHAB	22.30				
								G2G1596B-UHAB	22.26				
								G2G1593NB-UHAB	22.21				
								G2G1590-HAB	22.17				
								G2G1587-UHAB	22.13				
								G2G1584N-UHAB	22.09				
								G2G1581B-UHAB	22.05				
								G2G1578NB-UHAB	22.00				
								G2G1575-HAB	21.96				
								G2G1572-UHAB	21.92				
								G2G1569N-UHAB	21.88				
								G2G1566B-UHAB	21.84				
					xxv	Bifacial N-Type TOPCon Module (Glass to Glass)	G2G1560-HAB (520Wp) (496Wp - 545Wp)	G2G1563NB-UHAB	21.79	132 (Half Cut Cells)	1500	29.09.2023	28.09.2027
								G2G1560-HAB	21.75				
								G2G1557-UHAB	21.71				
								G2G1554N-UHAB	21.67				
								G2G1551B-UHAB	21.63				
								G2G1548NB-UHAB	21.59				
								G2G1545-HAB	21.54				
								G2G1542-UHAB	21.50				
								G2G1539N-UHAB	21.46				
								G2G1536B-UHAB	21.42				
								G2G1533NB-UHAB	21.38				
								G2G1530-HAB	21.33				
								G2G1527-UHAB	21.29				
								G2G1524N-UHAB	21.25				
								G2G1521B-UHAB	21.21				
								G2G1518NB-UHAB	21.17				
								G2G1515-HAB	21.13				
								G2G1512-UHAB	21.08				
								G2G1509N-UHAB	21.04				
								G2G1506B-UHAB	21.00				
								G2G1503NB-UHAB	20.96				
								G2G1500-HAB	20.92				
								G2G1497-UHAB	20.87				
								G2G1494N-UHAB	20.83				
								G2G1491B-UHAB	20.79				
								G2G1488NB-UHAB	20.75				
								G2G1485-HAB	20.71				
								G2G1482-UHAB	20.67				
								G2G1479N-UHAB	20.62				
								G2G1476B-UHAB	20.58				
								G2G1473NB-UHAB	20.54				
								G2G1470-HAB	20.50				
								G2G1467-UHAB	20.46				
								G2G1464N-UHAB	20.41				
								G2G1461B-UHAB	20.37				
								G2G1458NB-UHAB	20.33				
								G2G1455-HAB	20.29				
								G2G1452-UHAB	20.25				
								G2G1449N-UHAB	20.21				
								G2G1446B-UHAB	20.16				
								G2G1443NB-UHAB	20.12				
								G2G1440-HAB	20.08				
								G2G1425-HAB	19.87				
								G2G1410-HAB	19.66				
								G2G1485-HAA	22.70				
								G2G1482-UHAA	22.65				