IEC 61215-2 / EN IEC 61215-2			
Clause	Requirement + Test	Result - Remark	Verdict

Test results of IEC 61215-2 / EN IEC 61215-2

Module type: WST-450NCX48-BW (BOM1)

4.1 Visual inspection (initial) - MQT 01/MST 01		—
Test date [YYYY-MM-DD] ..... :	2025-04-14	—
Sample #	Nature and position of initial findings - comments or attach photos	—
1	No visual defects	P
2	No visual defects	P
3	No visual defects	P
4	No visual defects	P
Supplementary information: N/A		

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Clause	Requirement + Test	Result - Remark	Verdict

4.17 Hail impact test - MQT 17								—
Sample #..... :	1							—
Test date [YYYY-MM-DD] ..... :	2025-04-18							—
Number of impact locations..... :	11							—
Ice ball size [mm] ..... :	1	2	3	4	5	6		—
	35.22	34.43	34.24	33.94	34.07	34.75		
	7	8	9	10	11	—		
	33.79	34.06	36.02	35.70	33.72	—		
Ice ball weight [g] ..... :	1	2	3	4	5	6		—
	21.36	20.94	20.24	21.24	21.23	21.09		
	7	8	9	10	11	—		
	21.28	20.78	20.01	20.14	20.97	—		
Ice ball velocity [m/s]..... :	1	2	3	4	5	6		—
	26.87	27.76	26.67	26.90	26.80	27.72		
	7	8	9	10	11	—		
	27.31	27.41	26.06	26.29	26.05	—		
Supplementary information: N/A								
4.1 Visual inspection (after hail impact test) - MQT 01/MST 01								—
Test date [YYYY-MM-DD] ..... :	2025-04-23							—
Sample #	Nature and position of initial findings - comments or attach photos							—
1	No visual defects							P
Supplementary information: N/A								
4.2 Maximum power determination (after hail impact test) - MQT 02/MST 03								—
Test date [YYYY-MM-DD] ..... :	2025-04-23							—
Ambient temperature [°C]..... :	Corrected to 25.0							—
Irradiance [W/m²]..... :	Corrected to 1000							—
Sample #	I_{sc} [A]	V_{oc} [V]	I_{mp} [A]	V_{mp} [V]	P_{max} [W]	FF [%]		—
1-front	15.62	35.40	14.74	29.70	437.9	79.19		—
Supplementary information: N/A								

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Clause	Requirement + Test	Result - Remark	Verdict

4.3 Insulation test (after hail impact test) - MQT 03/MST 16				—
Test date [YYYY-MM-DD] ..... :		2025-04-23		—
Test voltage applied [V]..... :		2 minutes of 1500 and 1 minute of 8000		—
Sample #	Required [MΩ]	Measured [MΩ]	Dielectric breakdown?	—
1	20.0	>1000	No	P
Supplementary information: Minimum requirement according to the standard is 40MΩ·m². Area of the module is 2.00m².				
4.15 Wet leakage current test (after hail impact test) - MQT 15/MST 17				—
Test date [YYYY-MM-DD] ..... :		2025-04-23		—
Test voltage applied [V]..... :		2 minutes of 1500		—
Solution resistivity [Ω·cm] / <3500 ..... :		1848		—
Solution temperature [°C] / 22±2 ..... :		22.3		—
Sample #	Required [MΩ]	Measured [MΩ]		—
1	20.0	>1000		P
Supplementary information: Minimum requirement according to the standard is 40MΩ·m². Area of the module is 2.00m².				

IEC 61215-2 / EN IEC 61215-2			
Clause	Requirement + Test	Result - Remark	Verdict

4.17 Hail impact test - MQT 17								—
Sample #..... :	2							—
Test date [YYYY-MM-DD] ..... :	2025-04-22							—
Number of impact locations..... :	11							—
Ice ball size [mm] ..... :	1	2	3	4	5	6		—
	46.11	45.05	44.56	43.70	45.34	43.96		
	7	8	9	10	11	—		
	44.80	46.04	44.45	46.02	44.52	—		
Ice ball weight [g] ..... :	1	2	3	4	5	6		—
	43.36	43.00	43.77	43.06	43.32	43.07		
	7	8	9	10	11	—		
	44.97	43.63	43.93	43.03	43.12	—		
Ice ball velocity [m/s]..... :	1	2	3	4	5	6		—
	31.09	30.49	29.97	30.27	30.76	31.11		
	7	8	9	10	11	—		
	30.24	30.89	30.15	30.63	30.28	—		
Supplementary information: N/A								
4.1 Visual inspection (after hail impact test) - MQT 01/MST 01								—
Test date [YYYY-MM-DD] ..... :	2025-04-23							—
Sample #	Nature and position of initial findings - comments or attach photos							—
2	No visual defects							P
Supplementary information: N/A								
4.2 Maximum power determination (after hail impact test) - MQT 02/MST 03								—
Test date [YYYY-MM-DD] ..... :	2025-04-23							—
Ambient temperature [°C]..... :	Corrected to 25.0							—
Irradiance [W/m²]..... :	Corrected to 1000							—
Sample #	I_{sc} [A]	V_{oc} [V]	I_{mp} [A]	V_{mp} [V]	P_{max} [W]	FF [%]		—
2-front	15.57	35.40	14.75	29.70	438.2	79.50		—
Supplementary information: N/A								

IEC 61215-2 / EN IEC 61215-2			
Clause	Requirement + Test	Result - Remark	Verdict

4.3 Insulation test (after hail impact test) - MQT 03/MST 16				—
Test date [YYYY-MM-DD] ..... :		2025-04-23		—
Test voltage applied [V]..... :		2 minutes of 1500 and 1 minute of 8000		—
Sample #	Required [MΩ]	Measured [MΩ]	Dielectric breakdown?	—
2	20.0	>1000	No	P
Supplementary information: Minimum requirement according to the standard is 40MΩ·m². Area of the module is 2.00m².				
4.15 Wet leakage current test (after hail impact test) - MQT 15/MST 17				—
Test date [YYYY-MM-DD] ..... :		2025-04-23		—
Test voltage applied [V]..... :		2 minutes of 1500		—
Solution resistivity [Ω·cm] / <3500 ..... :		1848		—
Solution temperature [°C] / 22±2 ..... :		22.3		—
Sample #	Required [MΩ]	Measured [MΩ]		—
2	20.0	>1000		P
Supplementary information: Minimum requirement according to the standard is 40MΩ·m². Area of the module is 2.00m².				

IEC 61215-2 / EN IEC 61215-2			
Clause	Requirement + Test	Result - Remark	Verdict

Module type: WST-460NCX48-AW (BOM2)

4.1 Visual inspection (initial) - MQT 01/MST 01		—
Test date [YYYY-MM-DD] ..... :	2025-04-14	—
Sample #	Nature and position of initial findings - comments or attach photos	—
5	No visual defects	P
6	No visual defects	P
7	No visual defects	P
8	No visual defects	P
Supplementary information: N/A		

IEC 61215-2 / EN IEC 61215-2			
Clause	Requirement + Test	Result - Remark	Verdict

4.17 Hail impact test - MQT 17								—
Sample #..... :	5							—
Test date [YYYY-MM-DD] ..... :	2025-04-18							—
Number of impact locations..... :	11							—
Ice ball size [mm] ..... :	1	2	3	4	5	6		—
	34.72	35.62	35.85	35.49	33.82	35.31		
	7	8	9	10	11	—		
	34.71	34.05	36.09	34.26	33.75	—		
Ice ball weight [g] ..... :	1	2	3	4	5	6		—
	20.20	21.42	20.96	20.55	21.29	21.34		
	7	8	9	10	11	—		
	20.49	20.36	21.15	20.24	20.52	—		
Ice ball velocity [m/s]..... :	1	2	3	4	5	6		—
	27.81	26.86	27.20	26.72	26.74	27.46		
	7	8	9	10	11	—		
	26.06	26.91	27.38	25.92	27.79	—		
Supplementary information: N/A								
4.1 Visual inspection (after hail impact test) - MQT 01/MST 01								—
Test date [YYYY-MM-DD] ..... :	2025-04-23							—
Sample #	Nature and position of initial findings - comments or attach photos							—
5	No visual defects							P
Supplementary information: N/A								
4.2 Maximum power determination (after hail impact test) - MQT 02/MST 03								—
Test date [YYYY-MM-DD] ..... :	2025-04-23							—
Ambient temperature [°C]..... :	Corrected to 25.0							—
Irradiance [W/m²]..... :	Corrected to 1000							—
Sample #	I_{sc} [A]	V_{oc} [V]	I_{mp} [A]	V_{mp} [V]	P_{max} [W]	FF [%]		—
5-front	15.78	35.36	15.00	29.64	444.6	79.71		—
Supplementary information: N/A								

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Clause	Requirement + Test	Result - Remark	Verdict

4.3 Insulation test (after hail impact test) - MQT 03/MST 16				—
Test date [YYYY-MM-DD] ..... :		2025-04-23		—
Test voltage applied [V]..... :		2 minutes of 1500 and 1 minute of 8000		—
Sample #	Required [MΩ]	Measured [MΩ]	Dielectric breakdown?	—
5	20.0	>1000	No	P
Supplementary information: Minimum requirement according to the standard is 40MΩ·m². Area of the module is 2.00m².				
4.15 Wet leakage current test (after hail impact test) - MQT 15/MST 17				—
Test date [YYYY-MM-DD] ..... :		2025-04-23		—
Test voltage applied [V]..... :		2 minutes of 1500		—
Solution resistivity [Ω·cm] / <3500 ..... :		1848		—
Solution temperature [°C] / 22±2 ..... :		22.3		—
Sample #	Required [MΩ]	Measured [MΩ]		—
5	20.0	>1000		P
Supplementary information: Minimum requirement according to the standard is 40MΩ·m². Area of the module is 2.00m².				

IEC 61215-2 / EN IEC 61215-2			
Clause	Requirement + Test	Result - Remark	Verdict

4.17 Hail impact test - MQT 17								—
Sample #..... :	6							—
Test date [YYYY-MM-DD] ..... :	2025-04-22							—
Number of impact locations..... :	11							—
Ice ball size [mm] ..... :	1	2	3	4	5	6		—
	45.71	45.11	43.73	46.29	45.16	45.62		
	7	8	9	10	11	—		
	45.89	45.23	44.37	46.16	44.35	—		
Ice ball weight [g] ..... :	1	2	3	4	5	6		—
	44.82	44.69	42.96	44.95	44.61	43.69		
	7	8	9	10	11	—		
	43.32	44.51	43.12	43.92	44.87	—		
Ice ball velocity [m/s]..... :	1	2	3	4	5	6		—
	31.16	30.00	29.98	30.23	29.94	30.79		
	7	8	9	10	11	—		
	30.96	30.89	30.87	31.05	31.18	—		
Supplementary information: N/A								
4.1 Visual inspection (after hail impact test) - MQT 01/MST 01								—
Test date [YYYY-MM-DD] ..... :	2025-04-23							—
Sample #	Nature and position of initial findings - comments or attach photos							—
6	No visual defects							P
Supplementary information: N/A								
4.2 Maximum power determination (after hail impact test) - MQT 02/MST 03								—
Test date [YYYY-MM-DD] ..... :	2025-04-23							—
Ambient temperature [°C]..... :	Corrected to 25.0							—
Irradiance [W/m²]..... :	Corrected to 1000							—
Sample #	I_{sc} [A]	V_{oc} [V]	I_{mp} [A]	V_{mp} [V]	P_{max} [W]	FF [%]		—
6-front	15.69	35.48	15.02	29.84	448.1	80.51		—
Supplementary information: N/A								

IEC 61215-2 / EN IEC 61215-2			
Clause	Requirement + Test	Result - Remark	Verdict

4.3 Insulation test (after hail impact test) - MQT 03/MST 16				—
Test date [YYYY-MM-DD] ..... :		2025-04-23		—
Test voltage applied [V]..... :		2 minutes of 1500 and 1 minute of 8000		—
Sample #	Required [MΩ]	Measured [MΩ]	Dielectric breakdown?	—
6	20.0	>1000	No	P
Supplementary information: Minimum requirement according to the standard is 40MΩ·m². Area of the module is 2.00m².				
4.15 Wet leakage current test (after hail impact test) - MQT 15/MST 17				—
Test date [YYYY-MM-DD] ..... :		2025-04-23		—
Test voltage applied [V]..... :		2 minutes of 1500		—
Solution resistivity [Ω·cm] / <3500 ..... :		1848		—
Solution temperature [°C] / 22±2 ..... :		22.3		—
Sample #	Required [MΩ]	Measured [MΩ]		—
6	20.0	>1000		P
Supplementary information: Minimum requirement according to the standard is 40MΩ·m². Area of the module is 2.00m².				