



# Certificate of Compliance

Certificate: 80048527

Master Contract: 254141

Project: 80133054

Date Issued: 2022-07-05

Issued To: Hanwha Q.CELLS GmbH

17-21 Sonnenallee  
Thalheim  
Bitterfeld-Wolfen, Sachsen-Anhalt, 06766  
Germany

Attention: Wiebke Engler

*The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.*



Issued by: *Tom Yang*  
Tom Yang

## PRODUCTS

CLASS - C531110 - POWER SUPPLIES Photovoltaic Modules and Panels

CLASS - C531190 - POWER SUPPLIES Photovoltaic Modules and Panels - Certified to US Standards

Photovoltaic Modules with Maximum System Voltage of 1000 V dc or 1500 V dc, Class II / Application Class A, Fire Resistance Class C, Module Fire Performance Type 1, Type 2 or Type 5 (for US). Module Types:

Q.PLUS L-G4.2 XXX (XXX = 305 to 375, in steps of 5W),

B.LINE PLUS L-G4.2 XXX (XXX = 305 to 375, in steps of 5W),

Q.PLUS BFR-G4.1 XXX (XXX = 270 to 295, in steps of 5W and 282W),

B.LINE PLUS BFR-G4.1 XXX (XXX = 270 to 295, in steps of 5W and 282W),

Q.PLUS DUO L-G5.2 XXX (XXX = 340 to 385, in steps of 5W),

B.LINE PLUS DUO L-G5.2 XXX (XXX = 340 to 385, in steps of 5W),

Q.PEAK DUO L-G5 XXX (XXX = 360 to 425, in steps of 5W),



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Q.PEAK DUO L-G5.2 XXX (XXX = 360 to 425, in steps of 5W),  
Q.PEAK DUO L-G5.3 XXX (XXX = 360 to 425, in steps of 5W),  
B.LINE PEAK DUO L-G5 XXX (XXX = 360 to 425, in steps of 5W),  
B.LINE PEAK DUO L-G5.2 XXX (XXX = 360 to 425, in steps of 5W),  
B.LINE PEAK DUO L-G5.3 XXX (XXX = 360 to 425, in steps of 5W),  
Q.PEAK DUO BLK-G5 XXX (XXX = 290 to 360, in steps of 5W),  
Q.PEAK DUO BLK-G5/SC XXX (XXX = 290 to 360, in steps of 5W),  
Q.PEAK DUO BLK-G5/TS XXX (XXX = 290 to 360, in steps of 5W),  
Q.PEAK DUO-G5 XXX (XXX = 290 to 360, in steps of 5W),  
Q.PEAK DUO-G5/SC XXX (XXX = 290 to 360, in steps of 5W),  
Q.PEAK DUO-G5/TS XXX (XXX = 290 to 360, in steps of 5W),  
B.LINE PEAK DUO BLK-G5 XXX (XXX = 290 to 360, in steps of 5W),  
B.LINE PEAK DUO-G5 XXX (XXX = 290 to 360, in steps of 5W),  
Q.PEAK DUO-G6 XXX (XXX = 320 to 360, in steps of 5W),  
Q.PEAK DUO-G6/SC XXX (XXX = 320 to 360, in steps of 5W),  
Q.PEAK DUO-G6/TS XXX (XXX = 320 to 360, in steps of 5W),  
Q.PEAK DUO-G6+ XXX (XXX = 320 to 360, in steps of 5W),  
Q.PEAK DUO-G6+/SC XXX (XXX = 320 to 360, in steps of 5W),  
Q.PEAK DUO-G6+/TS XXX (XXX = 320 to 360, in steps of 5W),  
Q.PEAK DUO-G6P+ XXX (XXX = 320 to 360, in steps of 5W),  
B.LINE PEAK DUO-G6 XXX (XXX = 320 to 360, in steps of 5W),  
Q.PEAK DUO-G6.4 XXX (XXX = 320 to 360, in steps of 5W),  
Q.PEAK DUO-G6.5 XXX (XXX = 320 to 360, in steps of 5W),  
Q.PEAK DUO-G6.6 XXX (XXX = 320 to 360, in steps of 5W),  
Q.PEAK DUO-G6.7 XXX (XXX = 320 to 360, in steps of 5W),  
Q.PEAK DUO BLK-G6 XXX (XXX = 310 to 360, in steps of 5W),  
Q.PEAK DUO BLK-G6/SC XXX (XXX = 310 to 360, in steps of 5W),  
Q.PEAK DUO BLK-G6/TS XXX (XXX = 310 to 360, in steps of 5W),  
Q.PEAK DUO BLK-G6+ XXX (XXX = 310 to 360, in steps of 5W),  
Q.PEAK DUO BLK-G6+/HL XXX (XXX = 310 to 360, in steps of 5W),  
Q.PEAK DUO BLK-G6+/SC XXX (XXX = 310 to 360, in steps of 5W),  
Q.PEAK DUO BLK-G6+/TS XXX (XXX = 310 to 360, in steps of 5W),  
B.LINE PEAK DUO BLK-G6 XXX (XXX = 310 to 360, in steps of 5W),  
Q.PEAK DUO L-G6 XXX (XXX = 345 to 435, in steps of 5W),  
Q.PEAK DUO L-G6.2 XXX (XXX = 345 to 435, in steps of 5W),  
Q.PEAK DUO L-G6.3 XXX (XXX = 345 to 435, in steps of 5W),  
B.LINE PEAK DUO L-G6 XXX (XXX = 345 to 435, in steps of 5W),  
B.LINE PEAK DUO L-G6.2 XXX (XXX = 345 to 435, in steps of 5W),  
B.LINE PEAK DUO L-G6.3 XXX (XXX = 345 to 435, in steps of 5W),  
Q.PEAK DUO L-G6.4 XXX (XXX = 345 to 435, in steps of 5W),  
Q.PEAK DUO L-G6.5 XXX (XXX = 345 to 435, in steps of 5W),  
Q.PEAK DUO L-G6.6 XXX (XXX = 345 to 435, in steps of 5W),  
Q.PEAK DUO L-G6.7 XXX (XXX = 345 to 435, in steps of 5W),  
Q.PEAK DUO-G7 XXX (XXX = 290 to 350, in steps of 5W),  
B.LINE PEAK DUO-G7 XXX (XXX = 290 to 350, in steps of 5W),



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Q.PEAK DUO L-G7 XXX (XXX = 345 to 415, in steps of 5W),  
Q.PEAK DUO L-G7.2 XXX (XXX = 345 to 415, in steps of 5W),  
Q.PEAK DUO L-G7.3 XXX (XXX = 345 to 415, in steps of 5W),  
B.LINE PEAK DUO L-G7 XXX (XXX = 345 to 415, in steps of 5W),  
B.LINE PEAK DUO L-G7.2 XXX (XXX = 345 to 415, in steps of 5W),  
B.LINE PEAK DUO L-G7.3 XXX (XXX = 345 to 415, in steps of 5W),  
Q.PEAK DUO-G7.4 XXX (XXX = 315 to 350, in steps of 5W),  
B.LINE PEAK DUO-G7.4 XXX (XXX = 315 to 350, in steps of 5W),  
Q.PEAK DUO-G8 XXX (XXX = 290 to 360, in steps of 5W),  
Q.PEAK DUO-G8+ XXX (XXX = 290 to 360, in steps of 5W),  
B.LINE PEAK DUO-G8 XXX (XXX = 290 to 360, in steps of 5W),  
B.LINE PEAK DUO-G8+ XXX (XXX = 290 to 360, in steps of 5W),  
Q.PEAK DUO BLK-G8 XXX (XXX = 290 to 360, in steps of 5W),  
Q.PEAK DUO BLK-G8+ XXX (XXX = 290 to 360, in steps of 5W),  
B.LINE PEAK DUO BLK-G8 XXX (XXX = 290 to 360, in steps of 5W),  
B.LINE PEAK DUO BLK-G8+ XXX (XXX = 290 to 360, in steps of 5W),  
Q.PEAK DUO L-G8 XXX (XXX = 345 to 435, in steps of 5W),  
Q.PEAK DUO L-G8.1 XXX (XXX = 345 to 435, in steps of 5W),  
Q.PEAK DUO L-G8.2 XXX (XXX = 345 to 435, in steps of 5W),  
Q.PEAK DUO L-G8.3 XXX (XXX = 345 to 435, in steps of 5W),  
B.LINE PEAK DUO L-G8 XXX (XXX = 345 to 435, in steps of 5W),  
B.LINE PEAK DUO L-G8.1 XXX (XXX = 345 to 435, in steps of 5W),  
B.LINE PEAK DUO L-G8.2 XXX (XXX = 345 to 435, in steps of 5W),  
B.LINE PEAK DUO L-G8.3 XXX (XXX = 345 to 435, in steps of 5W),  
Q.PEAK DUO-G8.4 XXX (XXX = 315 to 360, in steps of 5W),  
Q.PEAK DUO-G8.7 XXX (XXX = 315 to 360, in steps of 5W),  
B.LINE PEAK DUO-G8.4 XXX (XXX = 315 to 360, in steps of 5W),  
B.LINE PEAK DUO-G8.7 XXX (XXX = 315 to 360, in steps of 5W),  
Q.PEAK DUO L-G8.7 XXX (XXX = 385 to 435, in steps of 5W),  
B.LINE PEAK DUO L-G8.7 XXX (XXX = 385 to 435, in steps of 5W),  
Q.PEAK DUO BLK-G9 XXX (XXX = 325 to 380, in steps of 5W),  
Q.PEAK DUO BLK-G9+ XXX (XXX = 325 to 380, in steps of 5W),  
B.LINE PEAK DUO BLK-G9 XXX (XXX = 325 to 380, in steps of 5W),  
Q.PEAK DUO XL-G9 XXX (XXX = 420 to 470, in steps of 5W),  
Q.PEAK DUO XL-G9.2 XXX (XXX = 420 to 470, in steps of 5W),  
Q.PEAK DUO XL-G9.3 XXX (XXX = 420 to 470, in steps of 5W),  
B.LINE PEAK DUO XL-G9 XXX (XXX = 420 to 470, in steps of 5W),  
B.LINE PEAK DUO XL-G9.2 XXX (XXX = 420 to 470, in steps of 5W),  
B.LINE PEAK DUO XL-G9.3 XXX (XXX = 420 to 470, in steps of 5W),  
Q.PEAK DUO ML-G9 XXX (XXX = 350 to 405, in steps of 5W),  
Q.PEAK DUO ML-G9+ XXX (XXX = 350 to 405, in steps of 5W),  
Q.PEAK DUO BLK ML-G9 XXX (XXX = 350 to 405, in steps of 5W),  
Q.PEAK DUO BLK ML-G9+ XXX (XXX = 350 to 405, in steps of 5W),  
B.LINE PEAK DUO ML-G9 XXX (XXX = 350 to 405, in steps of 5W),  
B.LINE PEAK DUO BLK ML-G9 XXX (XXX = 350 to 405, in steps of 5W),



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Q.PEAK DUO ML-G9.4 XXX (XXX = 350 to 405, in steps of 5W),  
B.LINE PEAK DUO ML-G9.4 XXX (XXX = 350 to 405, in steps of 5W),  
Q.PEAK DUO XL-G10.2 XXX (XXX = 460 to 510, in steps of 5W),  
Q.PEAK DUO XL-G10.c XXX (XXX = 460 to 510, in steps of 5W),  
Q.PEAK DUO XL-G10.3 XXX (XXX = 460 to 510, in steps of 5W),  
Q.PEAK DUO XL-G10.d XXX (XXX = 460 to 510, in steps of 5W),  
B.LINE PEAK DUO XL-G10.2 XXX (XXX = 460 to 510, in steps of 5W),  
B.LINE PEAK DUO XL-G10.c XXX (XXX = 460 to 510, in steps of 5W),  
B.LINE PEAK DUO XL-G10.3 XXX (XXX = 460 to 510, in steps of 5W),  
B.LINE PEAK DUO XL-G10.d XXX (XXX = 460 to 510, in steps of 5W),  
Q.PEAK DUO ML-G10 XXX (XXX = 380 to 435, in steps of 5W),  
Q.PEAK DUO ML-G10+ XXX (XXX = 380 to 435, in steps of 5W),  
Q.PEAK DUO ML-G10.a XXX (XXX = 380 to 435, in steps of 5W),  
Q.PEAK DUO ML-G10.a+ XXX (XXX = 380 to 435, in steps of 5W),  
Q.PEAK DUO ML-G10.2 XXX (XXX = 380 to 435, in steps of 5W),  
B.LINE PEAK DUO ML-G10 XXX (XXX = 380 to 435, in steps of 5W),  
B.LINE PEAK DUO ML-G10+ XXX (XXX = 380 to 435, in steps of 5W),  
B.LINE PEAK DUO ML-G10.a XXX (XXX = 380 to 435, in steps of 5W),  
B.LINE PEAK DUO ML-G10.a+ XXX (XXX = 380 to 435, in steps of 5W),  
B.LINE PEAK DUO ML-G10.2 XXX (XXX = 380 to 435, in steps of 5W),  
Q.PEAK DUO BLK ML-G10 XXX (XXX = 370 to 425, in steps of 5W),  
Q.PEAK DUO BLK ML-G10+ XXX (XXX = 370 to 425, in steps of 5W),  
Q.PEAK DUO BLK ML-G10.a XXX (XXX = 370 to 425, in steps of 5W),  
Q.PEAK DUO BLK ML-G10.a+ XXX (XXX = 370 to 425, in steps of 5W),  
Q.PEAK DUO BLK ML-G10+/TS XXX (XXX = 385 to 405, in steps of 5W),  
B.LINE PEAK DUO BLK ML-G10 XXX (XXX = 370 to 425, in steps of 5W),  
B.LINE PEAK DUO BLK ML-G10+ XXX (XXX = 370 to 425, in steps of 5W),  
B.LINE PEAK DUO BLK ML-G10.a XXX (XXX = 370 to 425, in steps of 5W),  
B.LINE PEAK DUO BLK ML-G10.a+ XXX (XXX = 370 to 425, in steps of 5W),  
Q.PEAK DUO BLK ML-G10.a+/TS XXX (XXX = 370 to 425, in steps of 5W),  
Q.PEAK DUO-G10 XXX (XXX = 340 to 405, in steps of 5W),  
Q.PEAK DUO-G10+ XXX (XXX = 340 to 405, in steps of 5W),  
Q.PEAK DUO-G10.a XXX (XXX = 340 to 405, in steps of 5W),  
Q.PEAK DUO-G10.a+ XXX (XXX = 340 to 405, in steps of 5W),  
B.LINE PEAK DUO-G10 XXX (XXX = 340 to 405, in steps of 5W),  
B.LINE PEAK DUO-G10.a XXX (XXX = 340 to 405, in steps of 5W),  
Q.PEAK DUO BLK-G10 XXX (XXX = 340 to 395, in steps of 5W),  
Q.PEAK DUO BLK-G10+ XXX (XXX = 340 to 395, in steps of 5W),  
Q.PEAK DUO BLK-G10+/HL XXX (XXX = 340 to 395, in steps of 5W),  
Q.PEAK DUO BLK-G10.a XXX (XXX = 340 to 395, in steps of 5W),  
Q.PEAK DUO BLK-G10.a+ XXX (XXX = 340 to 395, in steps of 5W),  
B.LINE PEAK DUO BLK-G10 XXX (XXX = 340 to 395, in steps of 5W),  
B.LINE PEAK DUO BLK-G10.a XXX (XXX = 340 to 395, in steps of 5W),  
Q.TRON ML-G1 XXX (XXX = 385 to 455, in steps of 5W),  
Q.TRON ML-G1+ XXX (XXX = 385 to 455, in steps of 5W),



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B.LINE TRON ML-G1 XXX (XXX = 385 to 455, in steps of 5W),  
 Q.TRON BLK ML-G1 XXX (XXX = 385 to 445, in steps of 5W),  
 Q.TRON BLK ML-G1+ XXX (XXX = 385 to 445, in steps of 5W),  
 B.LINE TRON BLK ML-G1 XXX (XXX = 385 to 445, in steps of 5W),  
 Q.PEAK DUO XL-G11.2 XXX (XXX= 570 to 590, in steps of 5W),  
 Q.PEAK DUO XL-G11.3 XXX (XXX= 570 to 590, in steps of 5W).  
 Q.TRON-G1+ XXX (XXX = 340 to 380, in steps of 5W),  
 Q.TRON BLK-G1+ XXX (XXX = 340 to 380, in steps of 5W).

Notes:

1. All electrical data shall be shown as relative to standard test conditions (STC) (1000 W/m<sup>2</sup> irradiance, (25 ± 2) °C, AM 1.5 according to IEC 60904-3).
2. Manufacturing tolerances are ±5% for voltage at open-circuit (Voc), ±5% for current at short-circuit (Isc) and ±3% for PV module maximum power (Pmax).

Module Type	Power Range (Watts)	Rated Maximum Power (Watts)	Open Circuit Voltage (V dc)	Short Circuit Current (A dc)	Rated Voltage (V dc)	Rated Current (A dc)
Q.PLUS L-G4.2 XXX B.LINE PLUS L-G4.2 XXX	305-405	305	44.66	9.21	35.63	8.58
		310	44.9	9.26	35.88	8.64
		315	45.14	9.31	36.18	8.71
		320	45.38	9.35	36.49	8.77
		325	45.62	9.4	36.78	8.84
		330	45.86	9.45	37.08	8.90
		335	46.10	9.50	37.36	8.97
		340	46.34	9.54	37.65	9.03
		345	46.58	9.59	37.93	9.10
		350	46.82	9.64	38.2	9.16
		355	47.06	9.68	38.48	9.23
		360	47.31	9.73	38.74	9.29
		365	47.55	9.78	39.01	9.36
		370	47.79	9.83	39.33	9.42
375	48.03	9.87	39.62	9.49		
Q.PLUS BFR-G4.1 XXX B.LINE PLUS BFR-G4.1 XXX	270-295	270	38.46	9.29	31.04	8.70
		275	38.72	9.35	31.36	8.77
		280	38.97	9.41	31.67	8.84
		282	39.10	9.50	31.40	9.00
		285	39.22	9.46	31.99	8.91
		290	39.48	9.52	32.29	8.98
		295	39.73	9.58	32.59	9.05
Q.PLUS DUO L-G5.2 XXX B.LINE PLUS DUO L-G5.2 XXX	340-385	340	45.89	9.69	37.40	9.09
		345	46.11	9.73	37.68	9.16



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Module Type	Power Range (Watts )	Rated Maximum Power (Watts)	Open Circuit Voltage (V dc)	Short Circuit Current (A dc)	Rated Voltage (V dc)	Rated Current (A dc)
		350	46.34	9.78	37.96	9.22
		355	46.57	9.82	38.24	9.28
		360	46.80	9.87	38.52	9.35
		365	47.03	9.92	38.79	9.41
		370	47.26	9.96	39.05	9.47
		375	47.71	10.01	39.32	9.54
		380	47.94	10.06	39.57	9.60
		385	48.17	10.10	39.83	9.67
Q.PEAK DUO L-G5 XXX Q.PEAK DUO L-G5.2 XXX Q.PEAK DUO L-G5.3 XXX B.LINE PEAK DUO L-G5 XXX B.LINE PEAK DUO L-G5.2 XXX B.LINE PEAK DUO L-G5.3 XXX	360-425	360	46.90	9.87	37.34	9.39
		365	47.17	9.92	38.68	9.44
		370	47.43	9.96	39.03	9.48
		375	47.69	10.01	39.37	9.52
		380	47.95	10.05	39.71	9.57
		385	48.21	10.10	40.05	9.61
		390	48.48	10.14	40.38	9.66
		395	48.74	10.19	40.71	9.70
		400	49.00	10.24	41.04	9.75
		405	49.26	10.28	41.36	9.79
		410	49.52	10.33	41.68	9.84
		415	49.78	10.37	42.00	9.88
		420	50.05	10.42	42.32	9.93
		425	50.31	10.46	42.63	9.97
Q.PEAK DUO BLK-G5 XXX Q.PEAK DUO BLK-G5/SC XXX Q.PEAK DUO BLK-G5/TS XXX B.LINE PEAK DUO BLK-G5 XXX	290-360	290	38.94	9.61	31.71	9.14
		295	39.21	9.67	32.07	9.20
		300	39.48	9.72	32.43	9.25
		305	39.75	9.78	32.78	9.31
		310	40.02	9.83	33.12	9.36
		315	40.29	9.89	33.46	9.41
		320	40.56	9.94	33.80	9.47
		325	40.83	10.00	34.14	9.52
		330	41.10	10.05	34.47	9.57
		335	41.36	10.11	34.80	9.63
		340	41.63	10.16	35.12	9.68
		345	41.90	10.22	35.44	9.73
		350	42.17	10.27	35.76	9.79
		355	42.44	10.33	36.07	9.84
		360	42.71	10.38	36.38	9.90
Q.PEAK DUO-G5 XXX Q.PEAK DUO-G5/SC XXX	290-360	290	38.56	9.76	31.24	9.28
		295	38.83	9.82	31.59	9.34



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Module Type	Power Range (Watts )	Rated Maximum Power (Watts)	Open Circuit Voltage (V dc)	Short Circuit Current (A dc)	Rated Voltage (V dc)	Rated Current (A dc)
Q.PEAK DUO-G5/TS XXX B.LINE PEAK DUO-G5 XXX		300	39.09	9.87	31.95	9.39
		305	39.35	9.93	32.30	9.44
		310	39.61	9.98	32.64	9.50
		315	39.87	10.04	32.98	9.55
		320	40.13	10.09	33.32	9.60
		325	40.40	10.14	33.65	9.66
		330	40.66	10.20	33.98	9.71
		335	40.92	10.25	34.31	9.76
		340	41.18	10.31	34.63	9.82
		345	41.44	10.36	34.95	9.87
		350	41.71	10.42	35.26	9.93
		355	41.97	10.47	35.58	9.98
		360	42.23	10.53	35.88	10.03
Q.PEAK DUO-G6 XXX Q.PEAK DUO-G6/SC XXX Q.PEAK DUO-G6/TS XXX Q.PEAK DUO-G6+ XXX Q.PEAK DUO-G6+/SC XXX Q.PEAK DUO-G6+/TS XXX Q.PEAK DUO-G6P+ XXX B.LINE PEAK DUO-G6 XXX Q.PEAK DUO-G6.4 XXX Q.PEAK DUO-G6.5 XXX Q.PEAK DUO-G6.6 XXX Q.PEAK DUO-G6.7 XXX	320-360	320	39.25	10.46	32.16	9.95
		325	39.49	10.51	32.49	10.00
		330	39.74	10.57	32.81	10.06
		335	39.99	10.62	33.13	10.11
		340	40.24	10.68	33.45	10.16
		345	40.49	10.73	33.76	10.22
		350	40.73	10.79	34.07	10.27
		355	40.98	10.84	34.38	10.33
		360	41.23	10.90	34.69	10.38
		360	41.23	10.90	34.69	10.38
Q.PEAK DUO BLK-G6 XXX Q.PEAK DUO BLK-G6/SC XXX Q.PEAK DUO BLK-G6/TS XXX Q.PEAK DUO BLK-G6+ XXX Q.PEAK DUO BLK-G6+/HL XXX Q.PEAK DUO BLK-G6+/SC XXX Q.PEAK DUO BLK-G6+/TS XXX B.LINE PEAK DUO BLK-G6 XXX	310-360	310	39.14	10.19	31.97	9.70
		315	39.39	10.25	32.31	9.75
		320	39.65	10.30	32.64	9.80
		325	39.90	10.36	32.97	9.86
		330	40.15	10.41	33.29	9.91
		335	40.41	10.47	33.62	9.97
		340	40.66	10.52	33.94	10.02
		345	40.92	10.58	34.25	10.07
		350	41.17	10.63	34.56	10.13
		355	41.43	10.69	34.87	10.18
		360	41.68	10.74	35.18	10.23
Q.PEAK DUO L-G6 XXX Q.PEAK DUO L-G6.2 XXX Q.PEAK DUO L-G6.3 XXX	345-435	345	45.16	10.1	36.12	9.60
		350	45.41	10.15	36.44	9.65
		355	45.66	10.2	36.75	9.69



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Module Type	Power Range (Watts )	Rated Maximum Power (Watts)	Open Circuit Voltage (V dc)	Short Circuit Current (A dc)	Rated Voltage (V dc)	Rated Current (A dc)
B.LINE PEAK DUO L-G6 XXX B.LINE PEAK DUO L-G6.2 XXX B.LINE PEAK DUO L-G6.3 XXX Q.PEAK DUO L-G6.4 XXX Q.PEAK DUO L-G6.5 XXX Q.PEAK DUO L-G6.6 XXX Q.PEAK DUO L-G6.7 XXX		360	45.90	10.24	37.07	9.74
		365	46.15	10.29	37.39	9.78
		370	46.40	10.33	37.71	9.83
		375	46.65	10.38	38.03	9.87
		380	46.90	10.42	38.35	9.92
		385	47.14	10.47	38.66	9.96
		390	47.39	10.51	38.98	10,00
		395	47.64	10.56	39.31	10.05
		400	47.89	10.60	39.63	10.09
		405	48.14	10.65	39.95	10.14
		410	48.38	10.70	40.27	10.18
		415	48.63	10.74	40.58	10.23
		420	48.88	10.79	40.89	10.27
		425	49.13	10.83	41.20	10.32
		430	49.62	10.92	41.85	10.41
Q.PEAK DUO-G7 XXX B.LINE PEAK DUO-G7 XXX	290-350	290	38.53	9.72	31.53	9.24
		295	38.79	9.77	31.85	9.29
		300	39.06	9.83	32.18	9.35
		305	39.32	9.88	32.50	9.40
		310	39.58	9.93	32.79	9.45
		315	39.84	9.99	33.14	9.51
		320	40.10	10.04	33.47	9.56
		325	40.36	10.10	33.81	9.61
		330	40.62	10.15	34.14	9.67
		335	40.89	10.21	34.47	9.72
		340	41.15	10.26	34.79	9.77
		345	41.41	10.31	35.11	9.83
		350	41.67	10.37	35.43	9.88
Q.PEAK DUO L-G7 XXX Q.PEAK DUO L-G7.2 XXX Q.PEAK DUO L-G7.3 XXX B.LINE PEAK DUO L-G7 XXX B.LINE PEAK DUO L-G7.2 XXX B.LINE PEAK DUO L-G7.3 XXX	345-415	345	46.08	9.69	37.57	9.21
		350	46.34	9.73	37.9	9.26
		355	46.61	9.78	38.23	9.30
		360	46.87	9.83	38.52	9.35
		365	47.13	9.87	38.87	9.39
		370	47.39	9.92	39.21	9.44
		375	47.65	9.96	39.56	9.48
		380	47.91	10.01	39.9	9.52
		385	48.17	10.05	40.24	9.57





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Module Type	Power Range (Watts )	Rated Maximum Power (Watts)	Open Circuit Voltage (V dc)	Short Circuit Current (A dc)	Rated Voltage (V dc)	Rated Current (A dc)
		390	48.44	10.10	40.57	9.61
		395	48.70	10.14	40.90	9.66
		400	48.96	10.19	41.23	9.70
		405	49.22	10.23	41.56	9.75
		410	49.48	10.28	41.88	9.79
		415	49.74	10.32	42.20	9.83
Q.PEAK DUO-G7.4 XXX B.LINE PEAK DUO-G7.4 XXX	315-350	315	39.52	10.07	33.30	9.46
		320	39.78	10.12	33.64	9.51
		325	40.04	10.18	33.98	9.56
		330	40.30	10.23	34.31	9.62
		335	40.56	10.29	34.64	9.67
		340	40.82	10.34	34.97	9.72
		345	41.08	10.40	35.29	9.78
		350	41.34	10.45	35.61	9.83
Q.PEAK DUO-G8 XXX Q.PEAK DUO-G8+ XXX B.LINE PEAK DUO-G8 XXX B.LINE PEAK DUO-G8+ XXX	290-360	290	37.73	10.08	30.43	9.59
		295	37.98	10.14	30.74	9.64
		300	38.22	10.19	31.06	9.69
		305	38.47	10.25	31.37	9.74
		310	38.72	10.30	31.69	9.80
		315	38.97	10.36	31.98	9.85
		320	39.21	10.41	32.31	9.90
		325	39.46	10.46	32.64	9.96
		330	39.71	10.52	32.97	10.01
		335	39.96	10.57	33.29	10.06
		340	40.20	10.63	33.61	10.12
		345	40.45	10.68	33.92	10.17
		350	40.70	10.74	34.24	10.22
		355	40.95	10.79	34.55	10.28
360	41.19	10.84	34.85	10.33		
Q.PEAK DUO BLK-G8 XXX Q.PEAK DUO BLK-G8+ XXX B.LINE PEAK DUO BLK-G8 XXX B.LINE PEAK DUO BLK-G8+ XXX	290-360	290	38.14	9.86	31.01	9.37
		295	38.40	9.91	31.34	9.42
		300	38.65	9.96	31.68	9.48
		305	38.91	10.02	32.00	9.53
		310	39.16	10.07	32.35	9.58
		315	39.42	10.13	32.69	9.64
		320	39.68	10.18	33.03	9.69
		325	39.93	10.24	33.36	9.74
		330	40.19	10.29	33.69	9.80
335	40.44	10.34	34.01	9.85		



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Module Type	Power Range (Watts )	Rated Maximum Power (Watts)	Open Circuit Voltage (V dc)	Short Circuit Current (A dc)	Rated Voltage (V dc)	Rated Current (A dc)
		340	40.70	10.40	34.34	9.90
		345	40.95	10.45	34.65	9.96
		350	41.21	10.51	34.97	10.01
		355	41.46	10.56	35.28	10.06
		360	41.72	10.62	35.59	10.11
Q.PEAK DUO L-G8 XXX Q.PEAK DUO L-G8.1 XXX Q.PEAK DUO L-G8.2 XXX Q.PEAK DUO L-G8.3 XXX B.LINE PEAK DUO L-G8 XXX B.LINE PEAK DUO L-G8.1 XXX B.LINE PEAK DUO L-G8.2 XXX B.LINE PEAK DUO L-G8.3 XXX	345-435	345	45.13	10.06	36.42	9.56
		350	45.37	10.10	36.73	9.60
		355	45.62	10.15	37.04	9.65
		360	45.87	10.19	37.35	9.69
		365	46.12	10.24	37.66	9.74
		370	46.36	10.28	37.97	9.78
		375	46.61	10.33	38.28	9.82
		380	46.86	10.37	38.59	9.87
		385	47.11	10.42	38.84	9.91
		390	47.35	10.46	39.17	9.96
		395	47.60	10.51	39.49	10.00
		400	47.85	10.55	39.82	10.05
		405	48.10	10.60	40.14	10.09
		410	48.34	10.65	40.46	10.13
		415	48.59	10.69	40.77	10.18
		420	48.84	10.74	41.08	10.22
425	49.09	10.78	41.39	10.27		
430	49.33	10.83	41.70	10.31		
435	49.58	10.87	42.00	10.36		
Q.PEAK DUO-G8.4 XXX Q.PEAK DUO-G8.7 XXX B.LINE PEAK DUO-G8.4 XXX B.LINE PEAK DUO-G8.7 XXX	315-360	315	38.97	10.36	31.98	9.85
		320	39.21	10.41	32.31	9.90
		325	39.46	10.46	32.64	9.96
		330	39.71	10.52	32.97	10.01
		335	39.96	10.57	33.29	10.06
		340	40.20	10.63	33.61	10.12
		345	40.45	10.68	33.92	10.17
		350	40.70	10.74	34.24	10.22
		355	40.95	10.79	34.55	10.28
Q.PEAK DUO L-G8.7 XXX B.LINE PEAK DUO L-G8.7 XXX	385-435	360	41.19	10.84	34.85	10.33
		385	47.11	10.42	38.84	9.91
		390	47.35	10.46	39.17	9.96
		395	47.60	10.51	39.49	10.00
		400	47.85	10.55	39.82	10.05
		405	48.10	10.60	40.14	10.09



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Module Type	Power Range (Watts )	Rated Maximum Power (Watts)	Open Circuit Voltage (V dc)	Short Circuit Current (A dc)	Rated Voltage (V dc)	Rated Current (A dc)
		410	48.34	10.65	40.46	10.13
		415	48.59	10.69	40.77	10.18
		420	48.84	10.74	41.08	10.22
		425	40.09	10.78	41.39	10.27
		430	49.33	10.83	41.70	10.31
		435	49.58	10.87	42.00	10.36
Q.PEAK DUO BLK-G9 XXX Q.PEAK DUO BLK-G9+ XXX B.LINE PEAK DUO BLK-G9 XXX	325-380	325	40.80	10.36	33.23	9.78
		330	40.84	10.39	33.53	9.84
		335	40.87	10.43	33.81	9.91
		340	40.91	10.46	34.10	9.97
		345	40.94	10.49	34.38	10.03
		350	40.98	10.53	34.66	10.10
		355	41.02	10.56	34.94	10.16
		360	41.05	10.60	35.21	10.23
		365	41.09	10.63	35.47	10.29
		370	41.13	10.66	35.74	10.35
		375	41.16	10.70	36.00	10.42
Q.PEAK DUO XL-G9 XXX Q.PEAK DUO XL-G9.2 XXX Q.PEAK DUO XL-G9.3 XXX B.LINE PEAK DUO XL-G9 XXX B.LINE PEAK DUO XL-G9.2 XXX B.LINE PEAK DUO XL-G9.3 XXX	420-470	420	52.97	10.49	42.62	9.86
		425	53.00	10.52	42.91	9.90
		430	53.04	10.54	43.20	9.95
		435	53.07	10.57	43.49	10.00
		440	53.11	10.59	43.77	10.05
		445	53.15	10.62	44.06	10.10
		450	53.18	10.65	44.34	10.15
		455	53.22	10.67	44.61	10.20
		460	53.25	10.70	44.89	10.25
		465	53.29	10.73	45.16	10.30
Q.PEAK DUO ML-G9 XXX Q.PEAK DUO ML-G9+ XXX B.LINE PEAK DUO ML-G9 XXX Q.PEAK DUO ML-G9.4 XXX B.LINE PEAK DUO ML-G9.4 XXX	350-405	350	44.78	10.46	35.73	9.80
		355	44.81	10.49	36.03	9.85
		360	44.85	10.52	36.32	9.91
		365	44.89	10.55	36.61	9.97
		370	44.92	10.58	36.90	10.03
		375	44.96	10.62	37.18	10.09
		380	44.99	10.65	37.46	10.14
		385	45.03	10.68	37.74	10.20
		390	45.06	10.71	38.01	10.26
		395	45.10	10.74	38.29	10.32



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Module Type	Power Range (Watts )	Rated Maximum Power (Watts)	Open Circuit Voltage (V dc)	Short Circuit Current (A dc)	Rated Voltage (V dc)	Rated Current (A dc)		
		400	45.14	10.77	38.55	10.38		
		405	45.17	10.80	38.82	10.43		
Q.PEAK DUO BLK ML-G9 XXX Q.PEAK DUO BLK ML-G9+ XXX B.LINE PEAK DUO BLK ML-G9 XXX	350-405	350	44.82	10.31	36.11	9.69		
		355	44.86	10.34	36.41	9.75		
		360	44.90	10.37	36.70	9.81		
		365	44.93	10.40	36.99	9.87		
		370	44.97	10.44	37.28	9.92		
		375	45.01	10.47	37.57	9.98		
		380	45.04	10.50	37.85	10.04		
		385	45.08	10.53	38.13	10.10		
		390	45.12	10.56	38.40	10.16		
		395	45.15	10.59	38.67	10.21		
		400	45.19	10.62	38.94	10.27		
		405	45.23	10.65	39.25	10.33		
		Q.PEAK DUO XL-G10.2 XXX Q.PEAK DUO XL-G10.c XXX Q.PEAK DUO XL-G10.3 XXX Q.PEAK DUO XL-G10.d XXX B.LINE PEAK DUO XL-G10.2 XXX B.LINE PEAK DUO XL-G10.c XXX B.LINE PEAK DUO XL-G10.3 XXX B.LINE PEAK DUO XL-G10.d XXX	460-510	460	53.48	11.16	43.73	10.52
465	53.51			11.18	44.00	10.57		
470	53.54			11.21	44.27	10.62		
475	53.58			11.24	44.54	10.66		
480	53.61			11.26	44.81	10.71		
485	53.64			11.29	45.07	10.76		
490	53.68			11.31	45.33	10.81		
495	53.71			11.34	45.59	10.86		
500	53.75			11.36	45.85	10.91		
505	53.78			11.39	46.10	10.95		
510	53.81			11.42	46.35	11.00		
Q.PEAK DUO ML-G10 XXX Q.PEAK DUO ML-G10+ XXX Q.PEAK DUO ML-G10.a XXX Q.PEAK DUO ML-G10.a+ XXX Q.PEAK DUO ML-G10.2 XXX B.LINE PEAK DUO ML-G10 XXX B.LINE PEAK DUO ML-G10+ XXX B.LINE PEAK DUO ML-G10.a XXX B.LINE PEAK DUO ML-G10.a+ XXX B.LINE PEAK DUO ML-G10.2 XXX	380-435			380	44.92	11.04	36.50	10.41
				385	44.96	11.07	36.78	10.47
		390	44.99	11.10	37.05	10.53		
		395	45.03	11.13	37.32	10.58		
		400	45.06	11.16	37.59	10.64		
		405	45.09	11.19	37.85	10.70		
		410	45.13	11.22	38.11	10.76		
		415	45.16	11.26	38.37	10.82		
		420	45.20	11.29	38.63	10.87		
		425	45.23	11.32	38.88	10.93		
		430	45.26	11.35	39.13	10.99		
		435	45.30	11.38	39.38	11.05		
		Q.PEAK DUO BLK ML-G10 XXX Q.PEAK DUO BLK ML-G10+ XXX	370-425	370	45.08	10.94	35.55	10.41
375	45.12			10.98	35.82	10.47		



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Module Type	Power Range (Watts )	Rated Maximum Power (Watts)	Open Circuit Voltage (V dc)	Short Circuit Current (A dc)	Rated Voltage (V dc)	Rated Current (A dc)
Q.PEAK DUO BLK ML-G10.a XXX		380	45.16	11.01	36.09	10.53
Q.PEAK DUO BLK ML-G10.a+ XXX		385	45.19	11.04	36.36	10.59
B.LINE PEAK DUO BLK ML-G10 XXX		390	45.23	11.07	36.62	10.65
B.LINE PEAK DUO BLK ML-G10+ XXX		395	45.27	11.10	36.88	10.71
B.LINE PEAK DUO BLK ML-G10.a XXX		400	45.30	11.14	37.13	10.77
B.LINE PEAK DUO BLK ML-G10.a+ XXX		405	45.34	11.17	37.39	10.83
B.LINE PEAK DUO BLK ML-G10.a+ XXX		410	45.37	11.20	37.64	10.89
B.LINE PEAK DUO BLK ML-G10.a+ XXX		415	45.41	11.23	37.89	10.95
B.LINE PEAK DUO BLK ML-G10.a+ XXX		420	45.45	11.27	38.13	11.01
Q.PEAK DUO BLK ML-G10.a+/TS XXX		425	45.48	11.30	38.37	11.08
Q.PEAK DUO-G10 XXX	340-405	340	41.06	11.11	32.80	10.37
Q.PEAK DUO-G10+ XXX		345	41.10	11.14	33.07	10.43
Q.PEAK DUO-G10.a XXX		350	41.13	11.17	33.34	10.50
Q.PEAK DUO-G10.a+ XXX		355	41.16	11.21	33.62	10.56
B.LINE PEAK DUO-G10 XXX		360	41.20	11.24	33.89	10.62
B.LINE PEAK DUO-G10.a XXX		365	41.23	11.27	34.16	10.68
		370	41.26	11.31	34.43	10.75
		375	41.30	11.34	34.69	10.81
		380	41.33	11.37	34.95	10.87
		385	41.36	11.41	35.21	10.94
		390	41.40	11.44	35.46	11.00
		395	41.43	11.47	35.71	11.06
		400	41.46	11.51	35.96	11.12
	405	41.50	11.54	36.21	11.19	
Q.PEAK DUO BLK-G10 XXX	340-395	340	41.04	10.90	33.20	10.24
Q.PEAK DUO BLK-G10+ XXX		345	41.07	10.94	33.48	10.31
<b>Q.PEAK DUO BLK-G10+/HL XXX</b>		350	41.11	10.97	33.76	10.37
Q.PEAK DUO BLK-G10.a XXX		355	41.14	11.00	34.03	10.43
Q.PEAK DUO BLK-G10.a+ XXX		360	41.18	11.04	34.31	10.49
B.LINE PEAK DUO BLK-G10 XXX		365	41.21	11.07	34.58	10.56
B.LINE PEAK DUO BLK-G10.a XXX		370	41.24	11.10	34.84	10.62
		375	41.28	11.14	35.10	10.68
		380	41.31	11.17	35.36	10.75
		385	41.35	11.20	35.62	10.81
		390	41.38	11.24	35.87	10.87
		395	41.42	11.27	36.13	10.93
Q.TRON ML-G1 XXX		385-455	385	45.92	11.08	37.04
Q.TRON ML-G1+ XXX	390		45.96	11.11	37.31	10.45
B.LINE TRON ML-G1 XXX	395		45.99	11.14	37.59	10.51



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		400	46.02	11.17	37.86	10.56
		405	46.06	11.20	38.13	10.62
		410	46.09	11.23	38.40	10.68
		415	46.12	11.26	38.67	10.73
		420	46.16	11.29	38.93	10.79
		425	46.19	11.32	39.19	10.84
		430	46.22	11.35	39.45	10.90
		435	46.26	11.38	39.70	10.96
		440	46.29	11.41	39.95	11.01
		445	46.33	11.44	40.20	11.07
		450	46.36	11.47	40.45	11.13
		455	46.39	11.50	40.69	11.18
Q.TRON BLK ML-G1 XXX Q.TRON BLK ML-G1+ XXX B.LINE TRON BLK ML-G1 XXX	385-445	385	46.15	10.95	37.47	10.27
		390	46.18	10.98	37.75	10.33
		395	46.22	11.01	38.03	10.39
		400	46.25	11.04	38.31	10.44
		405	46.29	11.07	38.58	10.50
		410	46.32	11.10	38.85	10.55
		415	46.35	11.13	39.12	10.61
		420	46.39	11.16	39.39	10.66
		425	46.42	11.19	39.65	10.72
		430	46.45	11.21	39.91	10.77
		435	46.49	11.24	40.17	10.83
		440	46.52	11.27	40.42	10.89
445	46.56	11.30	40.67	10.94		
Q.PEAK DUO XL-G11.2 XXX Q.PEAK DUO XL-G11.3 XXX	570-590	570	53.59	13.49	44.46	12.82
		575	53.62	13.51	44.68	12.87
		580	53.64	13.54	44.90	12.92
		585	53.67	13.57	45.12	12.97
		590	53.70	13.59	45.33	13.01
Q.TRON-G1+ XXX	340-380	340	41.14	11.11	32.89	10.35
		345	41.17	11.14	33.15	10.41
		350	41.20	11.17	33.41	10.48
		355	41.24	11.21	33.68	10.54
		360	41.27	11.24	33.94	10.61
		365	41.30	11.27	34.20	10.67
		370	41.34	11.31	34.47	10.73
		375	41.37	11.34	34.73	10.80
380	41.40	11.37	34.99	10.86		



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Q.TRON BLK-G1+ XXX	340-380	340	41.15	11.00	33.10	10.28
		345	41.18	11.03	33.37	10.34
		350	41.21	11.07	33.63	10.41
		355	41.25	11.10	33.90	10.47
		360	41.28	11.14	34.17	10.54
		365	41.31	11.17	34.43	10.60
		370	41.35	11.20	34.70	10.66
		375	41.38	11.24	34.96	10.73
Q.PEAK DUO BLK ML-G10+/TS XXX	385-405	380	41.41	11.27	35.23	10.79
		385	45.19	11.04	36.36	10.59
		390	45.23	11.07	36.62	10.65
		395	45.27	11.10	36.88	10.71
		400	45.30	11.14	37.13	10.77
		405	45.34	11.17	37.39	10.83

**APPLICABLE REQUIREMENTS**

- CAN/CSA-C22.2 No. 61730-1:19 Photovoltaic (PV) module safety qualification – Part 1: Requirements for construction, 2019-12
- CAN/CSA-C22.2 No. 61730-2:19 Photovoltaic (PV) module safety qualification – Part 2: Requirements for testing, 2019-12
- UL 61730-1 1<sup>st</sup> Edition Photovoltaic (PV) Module Safety Qualification – Part 1: Requirements for Construction, 2017-12-04, revision date 2020-04-30
- UL 61730-2 1<sup>st</sup> Edition Photovoltaic (PV) Module Safety Qualification – Part 2: Requirements for Testing, 2017-12-04, revision date 2020-04-30

Notes:

Products certified under Class C531110 have been certified under CSA’s ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC). [www.scc.ca](http://www.scc.ca)

