
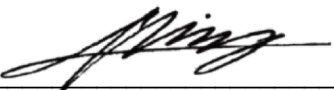



CDF (Constructional Data Form) for Electrical Products

Applicant..... :	Euronergy B.V. Zuidplein 132, 1077XV Amsterdam, The Netherlands
Manufacturer..... :	Euronergy B.V. Zuidplein 132, 1077XV Amsterdam, The Netherlands
Factory	Ma'anshan Peakup Power Technology Co., Ltd. Building 3, NO. 1750 Changzhou South Road, Ma'anshan Economic and Technological Development Zone (Demonstration Park), Anhui Province, China.
Product..... :	Crystalline Silicon Terrestrial Photovoltaic (PV) Modules
Standard(s)..... :	IEC 61215-1:2021 / EN IEC 61215-1:2021 IEC 61215-1-1:2021 / EN IEC 61215-1-1:2021 IEC 61215-2:2021 / EN IEC 61215-2:2021 IEC 61730-1:2023 IEC 61730-2:2023 EN IEC 61730-1:2018; EN IEC 61730-1:2018/AC:2018-06 EN IEC 61730-2:2018; EN IEC 61730-2:2018/AC:2018-06
Trade mark..... :	
Module type(s)..... :	Flexible PV Modules with Half-cut 182mm IBC Mono-crystalline Silicon Solar Cells(white): 144 cells: EUQJH72IXXX (XXX=520-540W, in increments of 5) 132 cells: EUQJH66IXXX (XXX=475-495W, in increments of 5) 120 cells: EUQJH60IXXX (XXX=435-450W, in increments of 5) 114 cells: EUQJH57IXXX (XXX=410-425W, in increments of 5) 108 cells: EUQJH54IXXX (XXX=390-405W, in increments of 5) 96 cells: EUQJH48IXXX (XXX=345-360W, in increments of 5) 84 cells: EUQJH42IXXX (XXX=305-315W, in increments of 5) 72 cells: EUQJH36IXXX (XXX=260-270W, in increments of 5) 64 cells: EUQJH32KXXX (XXX=230-240W, in increments of 5) 60 cells: EUQJH30IXXX (XXX=215-225W, in increments of 5) 52 cells: EUQJH26IXXX (XXX=190-195W, in increments of 5) 48 cells: EUQJH24IXXX (XXX=175-180W, in increments of 5) 46 cells: EUQJH23IXXX (XXX=167-172W, in increments of 5) 44 cells: EUQJH22IXXX (XXX=160-165W, in increments of 5) 40 cells: EUQJH20IXXX (XXX=145-150W, in increments of 5) 38 cells: EUQJH19IXXX (XXX=137-142W, in increments of 5) 36 cells: EUQJH18IXXX (XXX=130-135W, in increments of 5) 36 cells: EUQJH18KXXX (XXX=130-135W, in increments of 5) 34 cells: EUQJH17IXXX (XXX=122-127W, in increments of 5)

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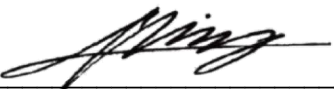

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	<p>32 cells: EUQJH16IXXX (XXX=115-120W, in increments of 5) 48 cells: EUQJH24KXXX (XXX=172-180W, in increments of 4) 42 cells: EUQJH21IXXX (XXX=150-158W, in increments of 4) 30 cells: EUQJH15KXXX (XXX=108-112W, in increments of 4) 28 cells: EUQJH14IXXX (XXX=101-105W, in increments of 4) 27 cells: EUQJHA2KXXX (XXX=97-101W, in increments of 4) 24 cells: EUQJH12IXXX (XXX=86-90W, in increments of 4) 24 cells: EUQJH12KXXX (XXX=86-90W, in increments of 4)</p> <p>42 cells: EUQJH21KXXX (XXX=151-157W, in increments of 3) 37 cells: EUQJHA5KXXX (XXX=133-139W, in increments of 3) 22 cells: EUQJH11IXXX (XXX=79-82W, in increments of 3) 20 cells: EUQJH10IXXX (XXX=72-75W, in increments of 3) 16 cells: EUQJH08IXXX (XXX=57-60W, in increments of 3)</p> <p>Flexible PV Modules with Half-cut 182mm IBC Mono-crystalline Silicon Solar Cells(black): 144 cells: EUQJH72JXXX (XXX=520-540W, in increments of 5) 132 cells: EUQJH66JXXX (XXX=475-495W, in increments of 5) 120 cells: EUQJH60JXXX (XXX=435-450W, in increments of 5) 114 cells: EUQJH57JXXX (XXX=410-425W, in increments of 5) 108 cells: EUQJH54JXXX (XXX=390-405W, in increments of 5) 96 cells: EUQJH48JXXX (XXX=345-360W, in increments of 5) 84 cells: EUQJH42JXXX (XXX=305-315W, in increments of 5) 72 cells: EUQJH36JXXX (XXX=260-270W, in increments of 5) 64 cells: EUQJH32LXXX (XXX=230-240W, in increments of 5) 60 cells: EUQJH30JXXX (XXX=215-225W, in increments of 5) 52 cells: EUQJH26JXXX (XXX=190-195W, in increments of 5) 48 cells: EUQJH24JXXX (XXX=175-180W, in increments of 5) 46 cells: EUQJH23JXXX (XXX=167-172W, in increments of 5) 44 cells: EUQJH22JXXX (XXX=160-165W, in increments of 5) 40 cells: EUQJH20JXXX (XXX=145-150W, in increments of 5) 38 cells: EUQJH19JXXX (XXX=137-142W, in increments of 5) 36 cells: EUQJH18JXXX (XXX=130-135W, in increments of 5) 36 cells: EUQJH18LXXX (XXX=130-135W, in increments of 5) 34 cells: EUQJH17JXXX (XXX=122-127W, in increments of 5) 32 cells: EUQJH16JXXX (XXX=115-120W, in increments of 5) 48 cells: EUQJH24LXXX (XXX=172-180W, in increments of 4) 42 cells: EUQJH21JXXX (XXX=150-158W, in increments of 4) 30 cells: EUQJH15LXXX (XXX=108-112W, in increments of 4) 28 cells: EUQJH14JXXX (XXX=101-105W, in increments of 4) 27 cells: EUQJHA2LXXX (XXX=97-101W, in increments of 4) 24 cells: EUQJH12JXXX (XXX=86-90W, in increments of 4)</p>
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	24 cells: EUQJH12LXXX (XXX=86-90W, in increments of 4) 42 cells: EUQJH21LXXX (XXX=151-157W, in increments of 3) 37 cells: EUQJHA5LXXX (XXX=133-139W, in increments of 3) 22 cells: EUQJH11JXXX (XXX=79-82W, in increments of 3) 20 cells: EUQJH10JXXX (XXX=72-75W, in increments of 3) 16 cells: EUQJH08JXXX (XXX=57-60W, in increments of 3)
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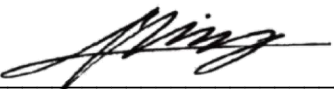
1. Electrical ratings and product description:


Module type.....:	144 cells: EUQJH72IXXX (XXX=520-540W, in increments of 5) 144 cells: EUQJH72JXXX (XXX=520-540W, in increments of 5)									
Dimensions [mm] / l x w x h.....:	2345 x 1170 x 2.5									
Min-distance between strings [mm].....:	0.2				Min-creepage distance [mm].....:				10.4	
Maximum System Voltage [V]	1500				Safety class acc. to IEC 61140.....:				Class II	
Design load (positive) [Pa]	3600				Safety factor (positive).....:				1.5	
Design load (negative) [Pa].....:	1600				Safety factor (negative).....:				1.5	
Maximum overcurrent protection rating [A]:	25									
Electrical ratings at irradiance level at STC										
Rated Voc at STC [V] / tolerance ±3%	51.74	52.01	52.28	52.56	52.83	-	-	-	-	-
Rated Isc at STC [A] / tolerance ±4%.....:	12.80	12.88	12.95	13.03	13.10	-	-	-	-	-
Rated Vmp at STC [V].....:	43.34	43.61	43.88	44.16	44.43	-	-	-	-	-
Rated Imp at STC [A]	12.01	12.05	12.08	12.12	12.16	-	-	-	-	-
Rated Pmax at STC [W] / tolerance ±3%....:	520	525	530	535	540	-	-	-	-	-

Module type.....:	132 cells: EUQJH66IXXX (XXX=475-495W, in increments of 5) 132 cells: EUQJH66JXXX (XXX=475-495W, in increments of 5)									
Dimensions [mm] / l x w x h.....:	2160 x 1170 x 2.5									
Min-distance between strings [mm].....:	0.2				Min-creepage distance [mm].....:				10.4	
Maximum System Voltage [V]	1500				Safety class acc. to IEC 61140.....:				Class II	
Design load (positive) [Pa]	3600				Safety factor (positive).....:				1.5	
Design load (negative) [Pa].....:	1600				Safety factor (negative).....:				1.5	
Maximum overcurrent protection rating [A]:	25									
Electrical ratings at irradiance level at STC										
Rated Voc at STC [V] / tolerance ±3%	47.43	47.68	47.93	48.18	48.43	-	-	-	-	-
Rated Isc at STC [A] / tolerance ±4%.....:	12.80	12.88	12.95	13.03	13.10	-	-	-	-	-
Rated Vmp at STC [V].....:	39.73	39.98	40.23	40.48	40.73	-	-	-	-	-
Rated Imp at STC [A]	11.96	12.01	12.06	12.11	12.16	-	-	-	-	-

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Rated Pmax at STC [W] / tolerance ±3%.....:	475	480	485	490	495	-	-	-	-	-
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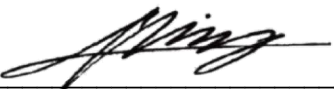
Module type.....:	120 cells: EUQJH60IXXX (XXX=435-450W, in increments of 5) 120 cells: EUQJH60JXXX (XXX=435-450W, in increments of 5)										
Dimensions [mm] / l x w x h.....:	1975 x 1170 x 2.5										
Min-distance between strings [mm].....:	0.2					Min-creepage distance [mm].....:					10.4
Maximum System Voltage [V]	1500					Safety class acc. to IEC 61140.....:					Class II
Design load (positive) [Pa]	3600					Safety factor (positive).....:					1.5
Design load (negative) [Pa].....:	1600					Safety factor (negative).....:					1.5
Maximum overcurrent protection rating [A]:	25										
Electrical ratings at irradiance level at STC											
Rated Voc at STC [V] / tolerance ±3%	43.34	43.57	43.80	44.02	-	-	-	-	-	-	
Rated Isc at STC [A] / tolerance ±4%.....:	12.88	12.95	13.03	13.10	-	-	-	-	-	-	
Rated Vmp at STC [V].....:	36.34	36.57	36.80	37.02	-	-	-	-	-	-	
Rated Imp at STC [A]	11.97	12.03	12.10	12.16	-	-	-	-	-	-	
Rated Pmax at STC [W] / tolerance ±3%.....:	435	440	445	450	-	-	-	-	-	-	


Module type.....:	114 cells: EUQJH57IXXX (XXX=410-425W, in increments of 5) 114 cells: EUQJH57JXXX (XXX=410-425W, in increments of 5)										
Dimensions [mm] / l x w x h.....:	1880 x 1170 x 2.5										
Min-distance between strings [mm].....:	0.2					Min-creepage distance [mm].....:					10.4
Maximum System Voltage [V]	1500					Safety class acc. to IEC 61140.....:					Class II
Design load (positive) [Pa]	3600					Safety factor (positive).....:					1.5
Design load (negative) [Pa].....:	1600					Safety factor (negative).....:					1.5
Maximum overcurrent protection rating [A]:	25										
Electrical ratings at irradiance level at STC											
Rated Voc at STC [V] / tolerance ±3%	40.96	41.18	41.39	41.61	-	-	-	-	-	-	
Rated Isc at STC [A] / tolerance ±4%.....:	12.80	12.88	12.95	13.03	-	-	-	-	-	-	
Rated Vmp at STC [V].....:	34.31	34.53	34.74	34.96	-	-	-	-	-	-	
Rated Imp at STC [A]	11.97	12.03	12.10	12.16	-	-	-	-	-	-	
Rated Pmax at STC [W] / tolerance ±3%.....:	410	415	420	425	-	-	-	-	-	-	

Module type.....:	108 cells: EUQJH54IXXX (XXX=390-405W, in increments of 5) 108 cells: EUQJH54JXXX (XXX=390-405W, in increments of 5)										
Dimensions [mm] / l x w x h.....:	1789 x 1170 x 2.5										
Min-distance between strings [mm].....:	0.2					Min-creepage distance [mm].....:					10.4

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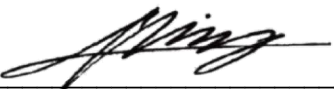
Maximum System Voltage [V]	1500	Safety class acc. to IEC 61140..... :	Class II							
Design load (positive) [Pa]	3600	Safety factor (positive)..... :	1.5							
Design load (negative) [Pa]..... :	1600	Safety factor (negative)..... :	1.5							
Maximum overcurrent protection rating [A]:	25									
Electrical ratings at irradiance level at STC										
Rated Voc at STC [V] / tolerance $\pm 3\%$	39.01	39.21	39.42	39.62	-	-	-	-	-	-
Rated Isc at STC [A] / tolerance $\pm 4\%$:	12.88	12.95	13.03	13.10	-	-	-	-	-	-
Rated Vmp at STC [V]..... :	32.71	32.91	33.12	33.32	-	-	-	-	-	-
Rated Imp at STC [A]	11.93	12.01	12.09	12.16	-	-	-	-	-	-
Rated Pmax at STC [W] / tolerance $\pm 3\%$:	390	395	400	405	-	-	-	-	-	-


Module type..... :	96 cells: EUQJH48IXXX (XXX=345-360W, in increments of 5) 96 cells: EUQJH48JXXX (XXX=345-360W, in increments of 5)									
Dimensions [mm] / l x w x h..... :	1603 x 1170 x 2.5									
Min-distance between strings [mm]..... :	0.2				Min-creepage distance [mm]..... :				10.4	
Maximum System Voltage [V]	1500	Safety class acc. to IEC 61140..... :	Class II							
Design load (positive) [Pa]	3600	Safety factor (positive)..... :	1.5							
Design load (negative) [Pa]..... :	1600	Safety factor (negative)..... :	1.5							
Maximum overcurrent protection rating [A]:	25									
Electrical ratings at irradiance level at STC										
Rated Voc at STC [V] / tolerance $\pm 3\%$	34.67	34.86	35.04	35.22	-	-	-	-	-	-
Rated Isc at STC [A] / tolerance $\pm 4\%$:	12.88	12.95	13.03	13.10	-	-	-	-	-	-
Rated Vmp at STC [V]..... :	29.07	29.26	29.44	29.62	-	-	-	-	-	-
Rated Imp at STC [A]	11.87	11.97	12.07	12.16	-	-	-	-	-	-
Rated Pmax at STC [W] / tolerance $\pm 3\%$:	345	350	355	360	-	-	-	-	-	-

Module type..... :	84 cells: EUQJH42IXXX (XXX=305-315W, in increments of 5) 84 cells: EUQJH42JXXX (XXX=305-315W, in increments of 5)									
Dimensions [mm] / l x w x h..... :	1417 x 1170 x 2.5									
Min-distance between strings [mm]..... :	0.2				Min-creepage distance [mm]..... :				10.4	
Maximum System Voltage [V]	1500	Safety class acc. to IEC 61140..... :	Class II							
Design load (positive) [Pa]	3600	Safety factor (positive)..... :	1.5							
Design load (negative) [Pa]..... :	1600	Safety factor (negative)..... :	1.5							
Maximum overcurrent protection rating [A]:	25									
Electrical ratings at irradiance level at STC										

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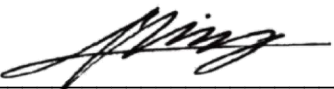
Rated Voc at STC [V] / tolerance $\pm 3\%$	30.50	30.66	30.82	-	-	-	-	-	-	-
Rated Isc at STC [A] / tolerance $\pm 4\%$	12.95	13.03	13.10	-	-	-	-	-	-	-
Rated Vmp at STC [V].....	25.60	25.76	25.92	-	-	-	-	-	-	-
Rated Imp at STC [A]	11.92	12.04	12.16	-	-	-	-	-	-	-
Rated Pmax at STC [W] / tolerance $\pm 3\%$	305	310	315	-	-	-	-	-	-	-


Module type.....	72 cells: EUQJH36IXXX (XXX=260-270W, in increments of 5) 72 cells: EUQJH36JXXX (XXX=260-270W, in increments of 5)										
Dimensions [mm] / l x w x h.....	1232 x 1170 x 2.5										
Min-distance between strings [mm].....	0.2					Min-creepage distance [mm].....					10.4
Maximum System Voltage [V]	1500					Safety class acc. to IEC 61140.....					Class II
Design load (positive) [Pa]	3600					Safety factor (positive).....					1.5
Design load (negative) [Pa].....	1600					Safety factor (negative).....					1.5
Maximum overcurrent protection rating [A]:	25										
Electrical ratings at irradiance level at STC											
Rated Voc at STC [V] / tolerance $\pm 3\%$	26.05	26.23	26.41	-	-	-	-	-	-	-	
Rated Isc at STC [A] / tolerance $\pm 4\%$	12.90	13.00	13.10	-	-	-	-	-	-	-	
Rated Vmp at STC [V].....	21.85	22.03	22.21	-	-	-	-	-	-	-	
Rated Imp at STC [A]	11.91	12.04	12.16	-	-	-	-	-	-	-	
Rated Pmax at STC [W] / tolerance $\pm 3\%$	260	265	270	-	-	-	-	-	-	-	

Module type.....	64 cells: EUQJH32KXXX (XXX=230-240W, in increments of 5) 64 cells: EUQJH32LXXX (XXX=230-240W, in increments of 5)										
Dimensions [mm] / l x w x h.....	2465 x 1087 x 2.5										
Min-distance between strings [mm].....	0.2					Min-creepage distance [mm].....					10.4
Maximum System Voltage [V]	1500					Safety class acc. to IEC 61140.....					Class II
Design load (positive) [Pa]	3600					Safety factor (positive).....					1.5
Design load (negative) [Pa].....	1600					Safety factor (negative).....					1.5
Maximum overcurrent protection rating [A]:	12										
Electrical ratings at irradiance level at STC											
Rated Voc at STC [V] / tolerance $\pm 3\%$	47.43	47.68	47.93	-	-	-	-	-	-	-	
Rated Isc at STC [A] / tolerance $\pm 4\%$	6.43	6.51	6.58	-	-	-	-	-	-	-	
Rated Vmp at STC [V].....	38.41	39.01	39.61	-	-	-	-	-	-	-	
Rated Imp at STC [A]	5.99	6.03	6.07	-	-	-	-	-	-	-	
Rated Pmax at STC [W] / tolerance $\pm 3\%$	230	235	240	-	-	-	-	-	-	-	

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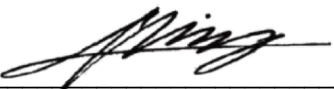
Module type.....:	60 cells: EUQJH30IXXX (XXX=215-225W, in increments of 5) 60 cells: EUQJH30JXXX (XXX=215-225W, in increments of 5)										
Dimensions [mm] / l x w x h.....:	1046 x 1170 x 2.5										
Min-distance between strings [mm].....:	0.2					Min-creepage distance [mm].....:					10.4
Maximum System Voltage [V]	1500					Safety class acc. to IEC 61140.....:					Class II
Design load (positive) [Pa]	3600					Safety factor (positive).....:					1.5
Design load (negative) [Pa].....:	1600					Safety factor (negative).....:					1.5
Maximum overcurrent protection rating [A]:	25										
Electrical ratings at irradiance level at STC											
Rated Voc at STC [V] / tolerance $\pm 3\%$	21.56	21.79	22.01	-	-	-	-	-	-	-	
Rated Isc at STC [A] / tolerance $\pm 4\%$:	12.80	12.95	13.10	-	-	-	-	-	-	-	
Rated Vmp at STC [V].....:	18.06	18.29	18.51	-	-	-	-	-	-	-	
Rated Imp at STC [A]	11.92	12.04	12.16	-	-	-	-	-	-	-	
Rated Pmax at STC [W] / tolerance $\pm 3\%$:	215	220	225	-	-	-	-	-	-	-	


Module type.....:	52 cells: EUQJH26IXXX (XXX=190-195W, in increments of 5) 52 cells: EUQJH26JXXX (XXX=190-195W, in increments of 5)										
Dimensions [mm] / l x w x h.....:	1324 x 804 x 2.5										
Min-distance between strings [mm].....:	0.2					Min-creepage distance [mm].....:					10.4
Maximum System Voltage [V]	1500					Safety class acc. to IEC 61140.....:					Class II
Design load (positive) [Pa]	3600					Safety factor (positive).....:					1.5
Design load (negative) [Pa].....:	1600					Safety factor (negative).....:					1.5
Maximum overcurrent protection rating [A]:	25										
Electrical ratings at irradiance level at STC											
Rated Voc at STC [V] / tolerance $\pm 3\%$:	18.74	18.83	-	-	-	-	-	-	-	-	
Rated Isc at STC [A] / tolerance $\pm 4\%$:	12.80	13.10	-	-	-	-	-	-	-	-	
Rated Vmp at STC [V] :	15.69	15.78	-	-	-	-	-	-	-	-	
Rated Imp at STC [A] :	12.12	12.36	-	-	-	-	-	-	-	-	
Rated Pmax at STC [W] / tolerance $\pm 3\%$:	190	195	-	-	-	-	-	-	-	-	

Module type.....:	48 cells: EUQJH24IXXX (XXX=175-180W, in increments of 5) 48 cells: EUQJH24JXXX (XXX=175-180W, in increments of 5)										
Dimensions [mm] / l x w x h.....:	860 x 1170 x 2.5										
Min-distance between strings [mm].....:	0.2					Min-creepage distance [mm].....:					10.4
Maximum System Voltage [V]	1500					Safety class acc. to IEC 61140.....:					Class II

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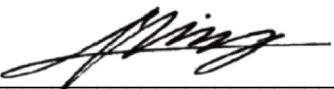
Design load (positive) [Pa]	3600	Safety factor (positive).....	1.5
Design load (negative) [Pa].....	1600	Safety factor (negative).....	1.5
Maximum overcurrent protection rating [A]:	25		
Electrical ratings at irradiance level at STC			
Rated Voc at STC [V] / tolerance ±3% :	17.43	17.61	- - - - -
Rated Isc at STC [A] / tolerance ±4% :	12.95	13.10	- - - - -
Rated Vmp at STC [V] :	14.63	14.81	- - - - -
Rated Imp at STC [A] :	11.98	12.16	- - - - -
Rated Pmax at STC [W] / tolerance ±3% :	175	180	- - - - -


Module type.....	46 cells: EUQJH231XXX (XXX=167-172W, in increments of 5) 46 cells: EUQJH23JXXX (XXX=167-172W, in increments of 5)										
Dimensions [mm] / l x w x h.....	1813 x 1089 x 2.5										
Min-distance between strings [mm].....	0.2					Min-creepage distance [mm].....	10.4				
Maximum System Voltage [V]	1500					Safety class acc. to IEC 61140.....	Class II				
Design load (positive) [Pa]	3600					Safety factor (positive).....	1.5				
Design load (negative) [Pa].....	1600					Safety factor (negative).....	1.5				
Maximum overcurrent protection rating [A]:	25										
Electrical ratings at irradiance level at STC											
Rated Voc at STC [V] / tolerance ±3% :	16.53	16.88	-	-	-	-	-	-	-	-	
Rated Isc at STC [A] / tolerance ±4% :	12.80	13.10	-	-	-	-	-	-	-	-	
Rated Vmp at STC [V] :	13.84	14.20	-	-	-	-	-	-	-	-	
Rated Imp at STC [A] :	12.08	12.12	-	-	-	-	-	-	-	-	
Rated Pmax at STC [W] / tolerance ±3% :	167	172	-	-	-	-	-	-	-	-	

Module type.....	44 cells: EUQJH221XXX (XXX=160-165W, in increments of 5) 44 cells: EUQJH22JXXX (XXX=160-165W, in increments of 5)										
Dimensions [mm] / l x w x h.....	1139 x 804 x 2.5										
Min-distance between strings [mm].....	0.2					Min-creepage distance [mm].....	10.4				
Maximum System Voltage [V]	1500					Safety class acc. to IEC 61140.....	Class II				
Design load (positive) [Pa]	3600					Safety factor (positive).....	1.5				
Design load (negative) [Pa].....	1600					Safety factor (negative).....	1.5				
Maximum overcurrent protection rating [A]:	25										
Electrical ratings at irradiance level at STC											
Rated Voc at STC [V] / tolerance ±3% :	15.81	16.14	-	-	-	-	-	-	-	-	

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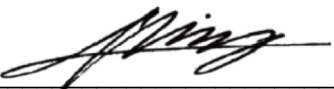
Rated I _{sc} at STC [A] / tolerance ±4% :	12.80	13.10	-	-	-	-	-	-	-	-
Rated V _{mp} at STC [V] :	13.24	13.58	-	-	-	-	-	-	-	-
Rated I _{mp} at STC [A] :	12.10	12.16	-	-	-	-	-	-	-	-
Rated P _{max} at STC [W] / tolerance ±3% :	160	165	-	-	-	-	-	-	-	-


Module type.....:	40 cells: EUQJH20IXXX (XXX=145-150W, in increments of 5) 40 cells: EUQJH20JXXX (XXX=145-150W, in increments of 5)										
Dimensions [mm] / l x w x h.....:	1046 x 804 x 2.5										
Min-distance between strings [mm].....:	0.2					Min-creepage distance [mm].....:					10.4
Maximum System Voltage [V]	1500					Safety class acc. to IEC 61140.....:					Class II
Design load (positive) [Pa]	3600					Safety factor (positive).....:					1.5
Design load (negative) [Pa].....:	1600					Safety factor (negative).....:					1.5
Maximum overcurrent protection rating [A]:	25										
Electrical ratings at irradiance level at STC											
Rated Voc at STC [V] / tolerance ±3% :	14.37	14.67	-	-	-	-	-	-	-	-	
Rated I _{sc} at STC [A] / tolerance ±4% :	12.80	13.10	-	-	-	-	-	-	-	-	
Rated V _{mp} at STC [V] :	12.04	12.34	-	-	-	-	-	-	-	-	
Rated I _{mp} at STC [A] :	12.06	12.16	-	-	-	-	-	-	-	-	
Rated P _{max} at STC [W] / tolerance ±3% :	145	150	-	-	-	-	-	-	-	-	

Module type.....:	38 cells: EUQJH19IXXX (XXX=137-142W, in increments of 5) 38 cells: EUQJH19JXXX (XXX=137-142W, in increments of 5)										
Dimensions [mm] / l x w x h.....:	1882 x 437x 2.5										
Min-distance between strings [mm].....:	0.2					Min-creepage distance [mm].....:					10.4
Maximum System Voltage [V]	1500					Safety class acc. to IEC 61140.....:					Class II
Design load (positive) [Pa]	3600					Safety factor (positive).....:					1.5
Design load (negative) [Pa].....:	1600					Safety factor (negative).....:					1.5
Maximum overcurrent protection rating [A]:	25										
Electrical ratings at irradiance level at STC											
Rated Voc at STC [V] / tolerance ±3% :	13.65	13.94	-	-	-	-	-	-	-	-	
Rated I _{sc} at STC [A] / tolerance ±4% :	12.80	13.10	-	-	-	-	-	-	-	-	
Rated V _{mp} at STC [V] :	11.44	11.72	-	-	-	-	-	-	-	-	
Rated I _{mp} at STC [A] :	11.99	12.12	-	-	-	-	-	-	-	-	
Rated P _{max} at STC [W] / tolerance ±3% :	137	142	-	-	-	-	-	-	-	-	

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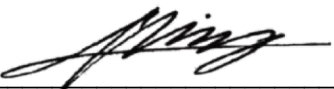
Module type.....:	36 cells: EUQJH18IXXX (XXX=130-135W, in increments of 5) 36 cells: EUQJH18JXXX (XXX=130-135W, in increments of 5)										
Dimensions [mm] / l x w x h.....:	674 x 1170 x 2.5										
Min-distance between strings [mm].....:	0.2					Min-creepage distance [mm].....:					10.4
Maximum System Voltage [V]	1500					Safety class acc. to IEC 61140.....:					Class II
Design load (positive) [Pa]	3600					Safety factor (positive).....:					1.5
Design load (negative) [Pa].....:	1600					Safety factor (negative).....:					1.5
Maximum overcurrent protection rating [A]:	12										
Electrical ratings at irradiance level at STC											
Rated Voc at STC [V] / tolerance ±3% :	12.93	13.21	-	-	-	-	-	-	-	-	
Rated Isc at STC [A] / tolerance ±4% :	12.80	13.10	-	-	-	-	-	-	-	-	
Rated Vmp at STC [V] :	10.83	11.11	-	-	-	-	-	-	-	-	
Rated Imp at STC [A] :	12.01	12.16	-	-	-	-	-	-	-	-	
Rated Pmax at STC [W] / tolerance ±3% :	130	135	-	-	-	-	-	-	-	-	


Module type.....:	36 cells: EUQJH18KXXX (XXX=130-135W, in increments of 5) 36 cells: EUQJH18LXXX (XXX=130-135W, in increments of 5)										
Dimensions [mm] / l x w x h.....:	2269 x 396 x 2.5										
Min-distance between strings [mm].....:	0.2					Min-creepage distance [mm].....:					10.4
Maximum System Voltage [V]	1500					Safety class acc. to IEC 61140.....:					Class II
Design load (positive) [Pa]	3600					Safety factor (positive).....:					1.5
Design load (negative) [Pa].....:	1600					Safety factor (negative).....:					1.5
Maximum overcurrent protection rating [A]:	25										
Electrical ratings at irradiance level at STC											
Rated Voc at STC [V] / tolerance ±3% :	25.87	26.41	-	-	-	-	-	-	-	-	
Rated Isc at STC [A] / tolerance ±4% :	6.40	6.55	-	-	-	-	-	-	-	-	
Rated Vmp at STC [V] :	21.67	22.21	-	-	-	-	-	-	-	-	
Rated Imp at STC [A] :	6.01	6.08	-	-	-	-	-	-	-	-	
Rated Pmax at STC [W] / tolerance ±3% :	130	135	-	-	-	-	-	-	-	-	

Module type.....:	34 cells: EUQJH17IXXX (XXX=122-127W, in increments of 5) 34 cells: EUQJH17JXXX (XXX=122-127W, in increments of 5)										
Dimensions [mm] / l x w x h.....:	1696 x 437 x 2.5										
Min-distance between strings [mm].....:	0.2					Min-creepage distance [mm].....:					10.4
Maximum System Voltage [V]	1500					Safety class acc. to IEC 61140.....:					Class II
Design load (positive) [Pa]	3600					Safety factor (positive).....:					1.5

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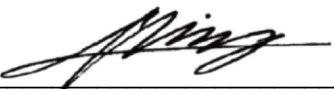
Design load (negative) [Pa]..... :	1600	Safety factor (negative)..... :									1.5
Maximum overcurrent protection rating [A] :	25										
Electrical ratings at irradiance level at STC											
Rated Voc at STC [V] / tolerance $\pm 3\%$:	12.22	12.47	-	-	-	-	-	-	-	-	-
Rated Isc at STC [A] / tolerance $\pm 4\%$:	12.80	13.10	-	-	-	-	-	-	-	-	-
Rated Vmp at STC [V] :	10.23	10.49	-	-	-	-	-	-	-	-	-
Rated Imp at STC [A] :	11.94	12.12	-	-	-	-	-	-	-	-	-
Rated Pmax at STC [W] / tolerance $\pm 3\%$:	122	127	-	-	-	-	-	-	-	-	-


Module type..... :	32 cells: EUQJH16IXXX (XXX=115-120W, in increments of 5) 32 cells: EUQJH16JXXX (XXX=115-120W, in increments of 5)										
Dimensions [mm] / l x w x h..... :	860 x 804 x 2.5										
Min-distance between strings [mm]..... :	0.2	Min-creepage distance [mm]..... :									10.4
Maximum System Voltage [V]	1500	Safety class acc. to IEC 61140..... :									Class II
Design load (positive) [Pa]..... :	3600	Safety factor (positive)..... :									1.5
Design load (negative) [Pa]..... :	1600	Safety factor (negative)..... :									1.5
Maximum overcurrent protection rating [A] :	25										
Electrical ratings at irradiance level at STC											
Rated Voc at STC [V] / tolerance $\pm 3\%$:	11.50	11.74	-	-	-	-	-	-	-	-	-
Rated Isc at STC [A] / tolerance $\pm 4\%$:	12.80	13.10	-	-	-	-	-	-	-	-	-
Rated Vmp at STC [V] :	9.63	9.87	-	-	-	-	-	-	-	-	-
Rated Imp at STC [A] :	11.96	12.16	-	-	-	-	-	-	-	-	-
Rated Pmax at STC [W] / tolerance $\pm 3\%$:	115	120	-	-	-	-	-	-	-	-	-

Module type..... :	42 cells: EUQJH21IXXX (XXX=150-158W, in increments of 4) 42 cells: EUQJH21JXXX (XXX=150-158W, in increments of 4)										
Dimensions [mm] / l x w x h..... :	2067 x 437 x 2.5										
Min-distance between strings [mm]..... :	0.2	Min-creepage distance [mm]..... :									10.4
Maximum System Voltage [V]	1500	Safety class acc. to IEC 61140..... :									Class II
Design load (positive) [Pa]..... :	3600	Safety factor (positive)..... :									1.5
Design load (negative) [Pa]..... :	1600	Safety factor (negative)..... :									1.5
Maximum overcurrent protection rating [A] :	25										
Electrical ratings at irradiance level at STC											
Rated Voc at STC [V] / tolerance $\pm 3\%$:	15.09	15.25	15.41	-	-	-	-	-	-	-	-
Rated Isc at STC [A] / tolerance $\pm 4\%$:	12.80	12.95	13.10	-	-	-	-	-	-	-	-

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Rated Vmp at STC [V] :	12.64	12.80	12.96	-	-	-	-	-	-	-
Rated Imp at STC [A] :	11.88	12.04	12.20	-	-	-	-	-	-	-
Rated Pmax at STC [W] / tolerance $\pm 3\%$:	150	154	158	-	-	-	-	-	-	-

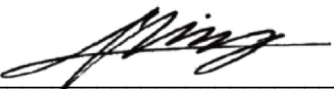
Module type.....:	48 cells: EUQJH24KXXX (XXX=172-180W, in increments of 4) 48 cells: EUQJH24LXXX (XXX=172-180W, in increments of 4)										
Dimensions [mm] / l x w x h.....:	2200 x 1059 x 2.5										
Min-distance between strings [mm].....:	0.2					Min-creepage distance [mm].....:					10.4
Maximum System Voltage [V]	1500					Safety class acc. to IEC 61140.....:					Class II
Design load (positive) [Pa]	3600					Safety factor (positive).....:					1.5
Design load (negative) [Pa].....:	1600					Safety factor (negative).....:					1.5
Maximum overcurrent protection rating [A]:	12										
Electrical ratings at irradiance level at STC											
Rated Voc at STC [V] / tolerance $\pm 3\%$:	34.40	34.81	35.22	-	-	-	-	-	-	-	
Rated Isc at STC [A] / tolerance $\pm 4\%$:	6.42	6.48	6.55	-	-	-	-	-	-	-	
Rated Vmp at STC [V] :	28.83	29.20	29.57	-	-	-	-	-	-	-	
Rated Imp at STC [A] :	5.97	6.03	6.09	-	-	-	-	-	-	-	
Rated Pmax at STC [W] / tolerance $\pm 3\%$:	172	176	180	-	-	-	-	-	-	-	


Module type.....:	30 cells: EUQJH15KXXX (XXX=108-112W, in increments of 4) 30 cells: EUQJH15LXXX (XXX=108-112W, in increments of 4)										
Dimensions [mm] / l x w x h.....:	1903 x 396 x 2.5										
Min-distance between strings [mm].....:	0.2					Min-creepage distance [mm].....:					10.4
Maximum System Voltage [V]	1500					Safety class acc. to IEC 61140.....:					Class II
Design load (positive) [Pa]	3600					Safety factor (positive).....:					1.5
Design load (negative) [Pa].....:	1600					Safety factor (negative).....:					1.5
Maximum overcurrent protection rating [A]:	12										
Electrical ratings at irradiance level at STC											
Rated Voc at STC [V] / tolerance $\pm 3\%$:	21.56	21.56	-	-	-	-	-	-	-	-	
Rated Isc at STC [A] / tolerance $\pm 4\%$:	6.40	6.55	-	-	-	-	-	-	-	-	
Rated Vmp at STC [V] :	18.06	18.51	-	-	-	-	-	-	-	-	
Rated Imp at STC [A] :	5.99	6.06	-	-	-	-	-	-	-	-	
Rated Pmax at STC [W] / tolerance $\pm 3\%$:	108	112	-	-	-	-	-	-	-	-	

Module type.....:	28 cells: EUQJH14IXXX (XXX=101-105W, in increments of 4) 28 cells: EUQJH14JXXX (XXX=101-105W, in increments of 4)									
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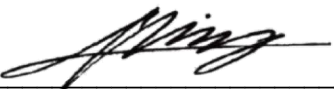
Dimensions [mm] / l x w x h..... :	767 x 804 x 2.5										
Min-distance between strings [mm]..... :	0.2					Min-creepage distance [mm]..... :	10.4				
Maximum System Voltage [V]	1500					Safety class acc. to IEC 61140..... :	Class II				
Design load (positive) [Pa]	3600					Safety factor (positive)..... :	1.5				
Design load (negative) [Pa]..... :	1600					Safety factor (negative)..... :	1.5				
Maximum overcurrent protection rating [A]:	25										
Electrical ratings at irradiance level at STC											
Rated Voc at STC [V] / tolerance ±3% :	10.06	10.27	-	-	-	-	-	-	-	-	
Rated Isc at STC [A] / tolerance ±4% :	12.80	13.10	-	-	-	-	-	-	-	-	
Rated Vmp at STC [V] :	8.43	8.64	-	-	-	-	-	-	-	-	
Rated Imp at STC [A] :	12.00	12.17	-	-	-	-	-	-	-	-	
Rated Pmax at STC [W] / tolerance ±3% :	101	105	-	-	-	-	-	-	-	-	


Module type..... :	27 cells: EUQJHA2KXXX (XXX=97-101W, in increments of 4) 27 cells: EUQJHA2LXXX (XXX=97-101W, in increments of 4)										
Dimensions [mm] / l x w x h..... :	1720 x 396 x 2.5										
Min-distance between strings [mm]..... :	0					Min-creepage distance [mm]..... :	10.4				
Maximum System Voltage [V]	1500					Safety class acc. to IEC 61140..... :	Class II				
Design load (positive) [Pa]	3600					Safety factor (positive)..... :	1.5				
Design load (negative) [Pa]..... :	1600					Safety factor (negative)..... :	1.5				
Maximum overcurrent protection rating [A]:	12										
Electrical ratings at irradiance level at STC											
Rated Voc at STC [V] / tolerance ±3% :	19.40	19.81	-	-	-	-	-	-	-	-	
Rated Isc at STC [A] / tolerance ±4% :	6.40	6.40	-	-	-	-	-	-	-	-	
Rated Vmp at STC [V] :	16.25	16.66	-	-	-	-	-	-	-	-	
Rated Imp at STC [A] :	5.98	6.07	-	-	-	-	-	-	-	-	
Rated Pmax at STC [W] / tolerance ±3% :	97	101	-	-	-	-	-	-	-	-	

Module type..... :	24 cells: EUQJH12IXXX (XXX=86-90W, in increments of 4) 24 cells: EUQJH12JXXX (XXX=86-90W, in increments of 4)										
Dimensions [mm] / l x w x h..... :	489 x 1170 x 2.5										
Min-distance between strings [mm]..... :	0.2					Min-creepage distance [mm]..... :	10.4				
Maximum System Voltage [V]	1500					Safety class acc. to IEC 61140..... :	Class II				
Design load (positive) [Pa]	3600					Safety factor (positive)..... :	1.5				
Design load (negative) [Pa]..... :	1600					Safety factor (negative)..... :	1.5				

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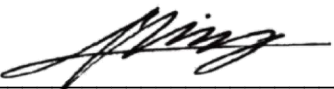
Maximum overcurrent protection rating [A] :	12									
Electrical ratings at irradiance level at STC										
Rated Voc at STC [V] / tolerance $\pm 3\%$:	8.62	8.80	-	-	-	-	-	-	-	-
Rated Isc at STC [A] / tolerance $\pm 4\%$:	12.80	13.10	-	-	-	-	-	-	-	-
Rated Vmp at STC [V] :	7.22	7.40	-	-	-	-	-	-	-	-
Rated Imp at STC [A] :	11.93	12.17	-	-	-	-	-	-	-	-
Rated Pmax at STC [W] / tolerance $\pm 3\%$:	86	90	-	-	-	-	-	-	-	-


Module type.....:	24 cells: EUQJH12KXXX (XXX=86-90W, in increments of 4) 24 cells: EUQJH12LXXX (XXX=86-90W, in increments of 4)										
Dimensions [mm] / l x w x h.....:	1537 x 396 x 2.5										
Min-distance between strings [mm].....:	0.2					Min-creepage distance [mm].....:					10.4
Maximum System Voltage [V]	1500					Safety class acc. to IEC 61140.....:					Class II
Design load (positive) [Pa]	3600					Safety factor (positive).....:					1.5
Design load (negative) [Pa].....:	1600					Safety factor (negative).....:					1.5
Maximum overcurrent protection rating [A] :	25										
Electrical ratings at irradiance level at STC											
Rated Voc at STC [V] / tolerance $\pm 3\%$:	17.25	17.25	-	-	-	-	-	-	-	-	
Rated Isc at STC [A] / tolerance $\pm 4\%$:	6.40	6.55	-	-	-	-	-	-	-	-	
Rated Vmp at STC [V] :	14.45	14.81	-	-	-	-	-	-	-	-	
Rated Imp at STC [A] :	5.97	6.08	-	-	-	-	-	-	-	-	
Rated Pmax at STC [W] / tolerance $\pm 3\%$:	86	90	-	-	-	-	-	-	-	-	

Module type.....:	42 cells: EUQJH21KXXX (XXX=151-157W, in increments of 3) 42 cells: EUQJH21LXXX (XXX=151-157W, in increments of 3)										
Dimensions [mm] / l x w x h.....:	2082 x 1002 x 2.5										
Min-distance between strings [mm].....:	0.2					Min-creepage distance [mm].....:					10.4
Maximum System Voltage [V]	1500					Safety class acc. to IEC 61140.....:					Class II
Design load (positive) [Pa]	3600					Safety factor (positive).....:					1.5
Design load (negative) [Pa].....:	1600					Safety factor (negative).....:					1.5
Maximum overcurrent protection rating [A] :	12										
Electrical ratings at irradiance level at STC											
Rated Voc at STC [V] / tolerance $\pm 3\%$:	30.18	30.50	30.82	-	-	-	-	-	-	-	
Rated Isc at STC [A] / tolerance $\pm 4\%$:	6.41	6.49	6.57	-	-	-	-	-	-	-	
Rated Vmp at STC [V] :	25.29	25.56	25.83	-	-	-	-	-	-	-	

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Rated Imp at STC [A] :	5.98	6.03	6.09	-	-	-	-	-	-	-
Rated Pmax at STC [W] / tolerance ±3% :	151	154	157	-	-	-	-	-	-	-

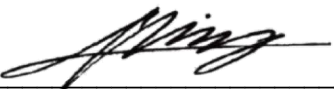
Module type.....:	37 cells: EUQJHA5KXXX (XXX=133-139W, in increments of 3) 37 cells: EUQJHA5LXXX (XXX=133-139W, in increments of 3)										
Dimensions [mm] / l x w x h.....:	1948x 938 x 2.5										
Min-distance between strings [mm].....:	0.2					Min-creepage distance [mm].....:					10.4
Maximum System Voltage [V]	1500					Safety class acc. to IEC 61140.....:					Class II
Design load (positive) [Pa]	3600					Safety factor (positive).....:					1.5
Design load (negative) [Pa].....:	1600					Safety factor (negative).....:					1.5
Maximum overcurrent protection rating [A]:	12										
Electrical ratings at irradiance level at STC											
Rated Voc at STC [V] / tolerance ±3% :	26.59	26.87	27.15	-	-	-	-	-	-	-	
Rated Isc at STC [A] / tolerance ±4% :	6.40	6.48	6.56	-	-	-	-	-	-	-	
Rated Vmp at STC [V] :	22.15	22.50	22.84	-	-	-	-	-	-	-	
Rated Imp at STC [A] :	6.01	6.05	6.09	-	-	-	-	-	-	-	
Rated Pmax at STC [W] / tolerance ±3% :	133	136	139	-	-	-	-	-	-	-	


Module type.....:	22 cells: EUQJH11IXXX (XXX=79-82W, in increments of 3) 22 cells: EUQJH11JXXX (XXX=79-82W, in increments of 3)										
Dimensions [mm] / l x w x h.....:	1139 x 437 x 2.5										
Min-distance between strings [mm].....:	0.2					Min-creepage distance [mm].....:					10.4
Maximum System Voltage [V]	1500					Safety class acc. to IEC 61140.....:					Class II
Design load (positive) [Pa]	3600					Safety factor (positive).....:					1.5
Design load (negative) [Pa].....:	1600					Safety factor (negative).....:					1.5
Maximum overcurrent protection rating [A]:	25										
Electrical ratings at irradiance level at STC											
Rated Voc at STC [V] / tolerance ±3% :	7.90	8.07	-	-	-	-	-	-	-	-	
Rated Isc at STC [A] / tolerance ±4% :	12.80	13.10	-	-	-	-	-	-	-	-	
Rated Vmp at STC [V] :	6.62	6.79	-	-	-	-	-	-	-	-	
Rated Imp at STC [A] :	11.95	12.10	-	-	-	-	-	-	-	-	
Rated Pmax at STC [W] / tolerance ±3% :	79	82	-	-	-	-	-	-	-	-	

Module type.....:	20 cells: EUQJH10IXXX (XXX=72-75W, in increments of 3) 20 cells: EUQJH10JXXX (XXX=72-75W, in increments of 3)									
Dimensions [mm] / l x w x h.....:	581 x 804 x 2.5									

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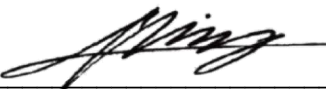
Min-distance between strings [mm]..... :	0.2	Min-creepage distance [mm]..... :	10.4
Maximum System Voltage [V]	1500	Safety class acc. to IEC 61140..... :	Class II
Design load (positive) [Pa]	3600	Safety factor (positive)..... :	1.5
Design load (negative) [Pa]..... :	1600	Safety factor (negative)..... :	1.5
Maximum overcurrent protection rating [A] :	25		
Electrical ratings at irradiance level at STC			
Rated Voc at STC [V] / tolerance ±3% :	7.19	7.34	- - - - -
Rated Isc at STC [A] / tolerance ±4% :	12.80	13.10	- - - - -
Rated Vmp at STC [V] :	6.02	6.17	- - - - -
Rated Imp at STC [A] :	11.98	12.17	- - - - -
Rated Pmax at STC [W] / tolerance ±3% :	72	75	- - - - -

Module type..... :	16 cells: EUQJH081XXX (XXX=57-60W, in increments of 3) 16 cells: EUQJH08JXXX (XXX=57-60W, in increments of 3)										
Dimensions [mm] / l x w x h..... :	489 x 804 x 2.5										
Min-distance between strings [mm]..... :	0.2	Min-creepage distance [mm]..... :	10.4								
Maximum System Voltage [V]	1500	Safety class acc. to IEC 61140..... :	Class II								
Design load (positive) [Pa]	3600	Safety factor (positive)..... :	1.5								
Design load (negative) [Pa]..... :	1600	Safety factor (negative)..... :	1.5								
Maximum overcurrent protection rating [A] :	25										
Electrical ratings at irradiance level at STC											
Rated Voc at STC [V] / tolerance ±3% :	5.75	5.87	- - - - -								
Rated Isc at STC [A] / tolerance ±4% :	12.80	13.10	- - - - -								
Rated Vmp at STC [V] :	4.82	4.94	- - - - -								
Rated Imp at STC [A] :	11.86	12.17	- - - - -								
Rated Pmax at STC [W] / tolerance ±3% :	57	60	- - - - -								


2. Copy of marking plate:

 <p>Euronergy B.V. info@euronergysolar.com www.euronergysolar.com Zuidplein 132, 1077XV Amsterdam, The Netherlands</p>	<p>Model: ##### (STC:AM=1.5, E=1000W/m², Tc=25°C)</p> <p>Maximum Power (Pmax) ##### Maximum Power Voltage (Vmp) ##### Maximum Power Current (Imp) ##### Open Circuit Voltage (Voc) ##### Short Circuit Current (Isc) ##### Maximum System Voltage 1500V DC(IEC) ##### Maximum Series Fuse Rating #A ##### Power Selection 0-#W ##### Power Production Tolerance ±3%</p>	<p>###W Safety Class Class II ###V The minimum radius of curvature ##### ###A Weight ##### ###V±3% Dimension ##### ###A±4% Module(TB)Max ##### 1500V DC(IEC) Min Design Load ##### #A Connector Manufacturer ##### 0-#W Connector Type ##### ##### Refer to manual for designated mating connectors.</p>	    <p>Warning: Module generates DC voltage when exposed to sunlight or other light sources. Read the installation and operation manual before installing, operating or servicing this unit.</p> <p>IEC 61215:2021 IEC 61730:2023</p>
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3. List of critical materials and components:

3.1 Cells

No.	Manufacturer	Type	Technical Data	Remark
1	Ma'anshan Peakup Power Technology Co., Ltd.	PB 88501b00 IBC cell	P type, Mono, IBC, 16BB Dimension (w x l) =182 mm x 183.75 mm Thickness=155±13 μm Cell area=333.05 - 333.67 cm ²	Tested with PV modules with

3.2 Front cover

No.	Manufacturer	Type	Technical Data	Remark
1	Jolywood (Suzhou) Sunwatt Co., Ltd.	FFC-JW3010(plus)	Layers: Coating (air side)/PET/ Coating (inner side) Color: transparent Thickness: 13um/ 285 um/ 12 um, Total 0.31mm. Max. system voltage: 1500 V TI=125°C VBD=8000V	Tested with PV modules certificate no. R50601338 002 issued by TUV Rheinland

3.3 Rear cover

No.	Manufacturer	Type	Technical Data	Remark
1	Cybrid Technologies Inc.	Cynagard 255	Layers: Guard skin film /PET/ Guard skin film Color: white/black Thickness: 12um/ 288 um/ 4 um, Total 0.304 mm. Max. system voltage: 1500 V TI= 118°C V _{BD} =8516V	Tested with PV modules report no.CN24OXHW 002 issued by TUV Rheinland

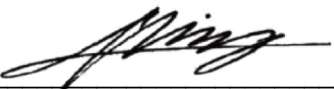
3.4 Encapsulant

No.	Manufacturer	Type	Technical Data	Remark
1	Cybrid Technologies Inc	T22	POE Thickness=0.70 mm	Tested with PV modules (between solar cell and front cover)
		C11	EVA Thickness=0.30 mm	Tested with PV modules (between conductive core board and rear cover)


3.5 Frame

No.	Manufacturer	Type	Technical Data	Remark
1	N/A	N/A	N/A	N/A

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3.6 Frame adhesive

No.	Manufacturer	Type	Technical Data	Remark
1	N/A	N/A	N/A	Tested with PV modules

3.7 Internal wiring (cell-to-cell connection)

No.	Manufacturer	Type	Technical Data	Remark
1	Nanjing Xinrun New Material Technology Co., Ltd.	FX-01PK	Electronic conductive adhesive	Tested with PV modules

3.8 Internal wiring (inter-string connection)

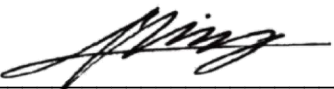
No.	Manufacturer	Type	Technical Data	Remark
1	Wuxi Sveck Technology Co., Ltd.	Copper belt with tin plated	0.3 x 6.0 mm Sn99.3%Cu0.7%	Tested with PV modules


3.9 Junction box set

Object	Manufacturer	Type	Technical Data	Remark
Junction box set				
Junction box	Jiangsu Tongling Electric Co., Ltd.	TL-BOX216x	Rated voltage = 1500VDC Rated current = 20A or 25A or 30A Number of diodes: 3 TI = 110°C Flammability: 5-VB	Certificate no. R 50501686
Adhesive (junction box)	H.B. FULLER (SUZHOU) ADVANCED MATERIAL CO., LTD	1527	Color: white/black	Combined with front cover
	Jiangsu Tianchen silisonlcon Material Co., Ltd.	HT-8258	Color: white/black	Combined with front cover
	Shanghai Huitian New Chemical Material Co., Ltd.	HT906Z	Color: white/black	Combined with front cover
	Chengdu Guibao Science and Technology Co., Ltd.	888A	Color: white/black	Combined with front cover
Potting material	H.B. Fuller (Suzhou) Advanced Material Co., Ltd.	1533 / 1521	Color: white/black	-
	Shanghai Huitian New Chemical Material Co., Ltd	5299W-S	Color: white/black	-
	Jiangsu Tianchen New Materials Co., Ltd	HT-6360	Color: white/black	-
	Sika (Jiangsu) Industrial Material Ltd.	CV315	Color: white/black	-
	Chengdu Guibao Science and Technology Co., Ltd.	4808	Color: white/black	-
	Jiangsu RAYBOND New Materials Technology Co., LTD	RS-3200(white)	Color: white	-

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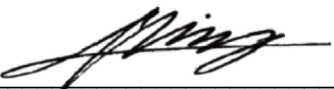
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Object	Manufacturer	Type	Technical Data	Remark
Bypass diodes	PanJit International Inc.	GF5045	Tj max = 200°C If = 50A	-
		GF4045	Tj max = 200°C If = 40A	
	Jiangsu Tongling Electric Co., Ltd.	PT001D-20	Tj max = 200°C If = 30A	
		PT001H-20	Tj max = 200°C If = 25A	
		PT001H-25	Tj max = 200°C If = 35A	
		PT001H-30	Tj max = 200°C If = 40A	-
	1. Anhui Juxin Semiconductor Technology Co., Ltd. 2. Yangzhou Yangjie Electronic Technology Co., Ltd. 3. PanJit International Inc.	35SQ045	Tj max = 200°C If = 35A	-
		40SQ045	Tj max = 200°C If = 40A	-
Cable	Jiangsu Tongling Electric Co., Ltd.	62930 IEC 131 1x4mm ²	Rated voltage = 1500VDC	Certificate no. R 50462100
	SUZHOU YONGHAO CABLE CO., LTD.	62930 IEC 131 1x4mm ²	Rated voltage = 1500VDC	Certificate no. R 50401233
	Suzhou Baohing Electric Wire& Cable Co., Ltd.	62930 IEC 131 1x4mm ²	Rated voltage = 1500VDC	Certificate no. R 50464210
Connectors	Jiangsu Tongling Electric Co., Ltd.	TL-CABLE01S; TL-CABLE01S-F; TL-CABLE01S Pro	Rated Voltage = 1500VDC Rated Current = 41A	Certificate no.: R 50514839
		BIGabcd (a=C, b=F or M, c=A or B, d=4)	Rated Voltage = 1500VDC Rated Current = 45A	Certificate no.: R 50524455
		TL-CABLE01S PLUS	Rated Voltage = 1500VDC Rated Current = 41A	Certificate no.: R 50584075
	QC Solar (Suzhou) Corporation	QC4.10-351	Rated Voltage = 1500VDC Rated Current = 41A	Certificate no.: R 50505605
	Staubli Electrical Connectors AG	PV-KST4-EVO 2/xy_UR (male) PV-KBT4-EVO 2/xy_UR (female)	Rated Voltage = 1500VDC Rated Current = 45A (4.0mm ²)	Certificate no.: R 60127169
PV-KST4-EVO 2A/xy PV-KBT4-EVO 2A/xy				

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3.10 Others

Object	Manufacturer	Type	Technical Data	Remark
Conductive core board	Ma'anshan Peakup Power Technology Co., Ltd.	Cu-Al composite foil	Thickness = 0.05mm	Tested with PV modules (between Insulation layer and EVA_C11)
Insulation layer	Ma'anshan Peakup Power Technology Co., Ltd.	IEC	Thickness = 0.15mm	Tested with PV modules
Soldering material	Hangzhou Youbang Solder Material Co., Ltd.	SnCu0.7	Sn99.3%Cu0.7%	Tested with PV modules
Label	Nanjing Xietai Packing Material Co., Ltd.	72826T	Layers: PET/S333/BG50#WH Thickness = 50 microns	Tested with PV modules

4. List of combinations:

4.1 Combination between cells and encapsulant

No.	Solar cell	Solar cell's manufacture	Encapsulant (front side)	Encapsulant(backside)	Encapsulant's manufacturer
1	PB 88501b00 IBC cell	Peakup	T22	C22	Cybrid

4.2 Combination between rear cover and encapsulant

No.	Rear cover	Rear cover's manufacture	Encapsulant (front side)	Encapsulant(backside)	Encapsulant's manufacturer
1	Cynagard 255	Cybrid	T22	C22	Cybrid

4.3 Combination between junction box, junction box adhesive and front cover

No.	Junction box	Junction box's manufacture	Junction box adhesive	Adhesive manufacturer	Front cover	Front cover's manufacturer
1	TL-BOX216x	Tongling	1527	FULLER	FFC-JW3010(plus)	Jollywood
			HT-8258	HT-8258		
			HT906Z	HT906Z		
			888A	888A		

4.4 Combination between encapsulant, LRF an rear cover

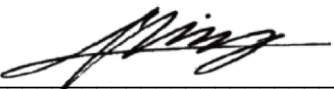
No.	LRF	LRF's manufacture	Rear cover	Encapsulant (front side)	Encapsulant(backside)	Encapsulant's manufacturer
1	N/A	N/A	N/A	N/A	N/A	N/A


Remark

- (1) The above module types and raw materials are suitable for modules operating at 98th percentile module operating temperature of 70°C or less.
- (2) Fire test Class C according to UL790 has been evaluated on all the raw materials listed above.
- (3) Pollution degree I (Sequence B1 of IEC / EN 61730-2) has been evaluated on all the raw materials listed

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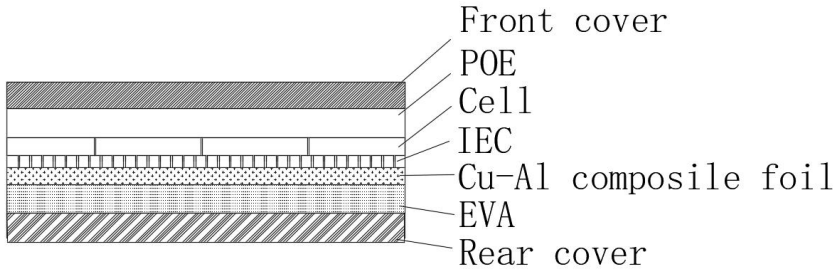

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above.

(4) For different installation method, two rounds of mechanical load tests have been evaluated.

Installation method	Design load	Safety factor
Installed on flat surfaces by structural adhesive	Round 1: 1600 / 1600 (positive / negative) Round 2: 3600 /1600 (positive / negative)	1.5

(5) Component structure diagram



(6) The ending letters of module types and corresponding colors are as below:

Ending letters of module types	Corresponding colors
HxxI	I represents full cell module current and white module
HxxJ	J represents full cell module current and black module
HxxK	K represents half cell module current and white module
HxxL	L represents half cell module current and black module
HA2K	A2K represents 27 pieces cells and white module
HA2L	A2L represents 27 pieces cells and black module
HA5K	A5K represents 37 pieces cells and white module
HA5L	A5L represents 37 pieces cells and black module

----- End of CDF -----

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