



KANZLER SOLAR GERMANY

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من سابقه اعمال الشركه فن او عندا مجموعه مشاريع

solar module Catalog

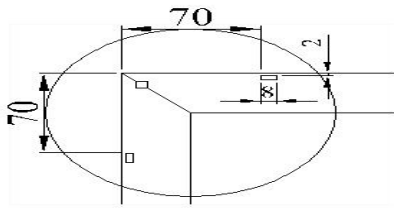
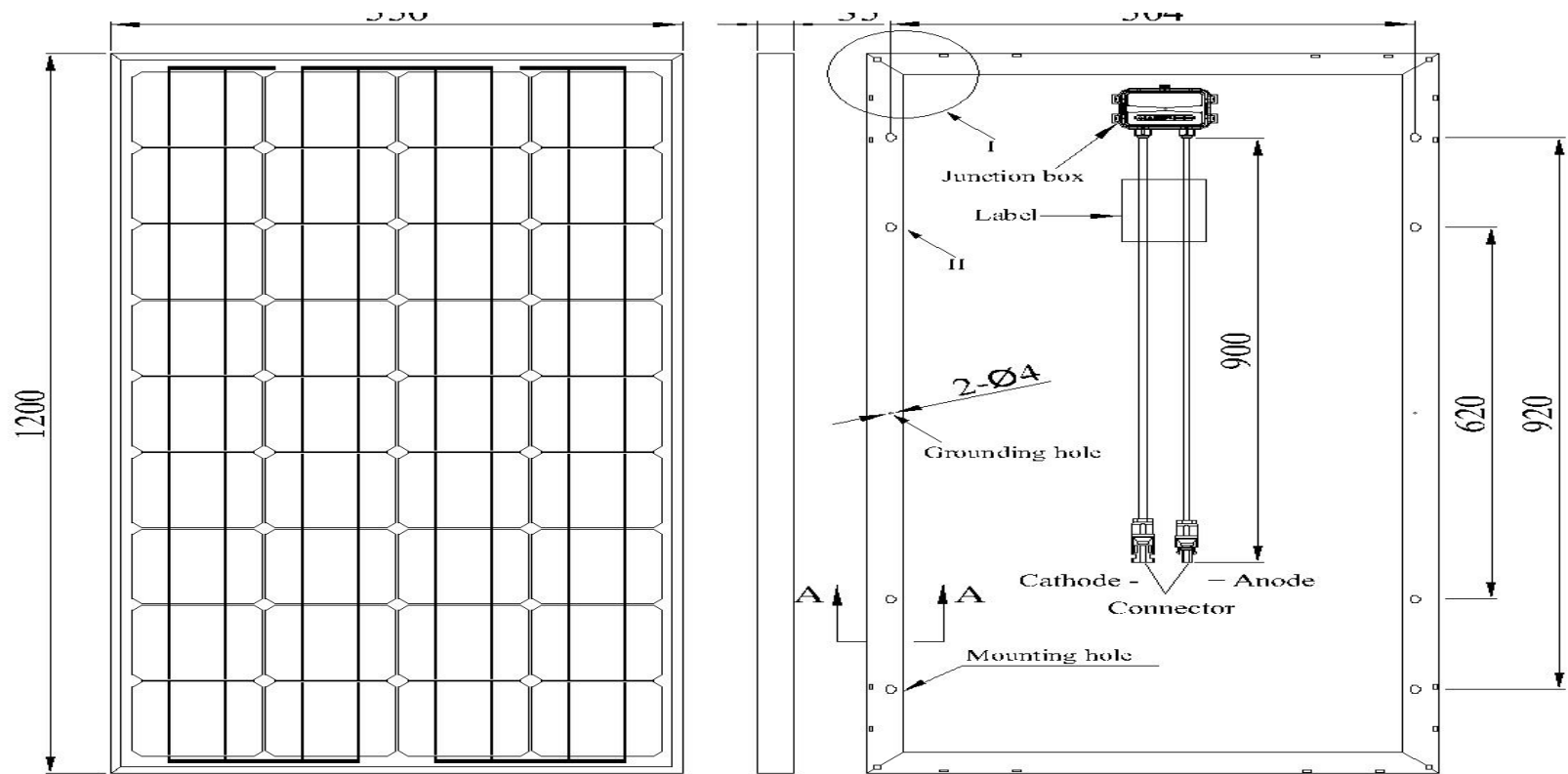
الجزء الاول من الكتالوج

خلايا المانيه مصنوعه داخل المانيا

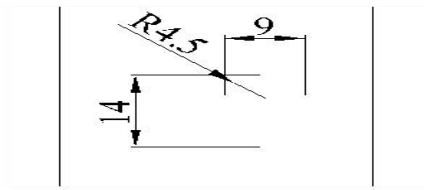
**AE MODULE**



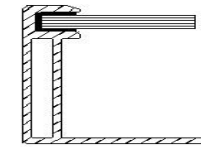
# **AE MODULE mono crystalline**



I



Mounting hole II



Section A-A

# **TECHNICAL DATA mono crystalline**

## **Series 90W-110W**

<b>Electrical Data</b>	<b>AE90</b>	<b>AE95</b>	<b>AE100</b>	<b>AE105</b>	<b>- AE110</b>
<i>Nominal power Pm (Wp)</i>	90	95	100	105	110
<i>Open circuit voltage Voc (V)</i>	21.32	21.96	22.14	22.62	23.80
<i>Short-circuit current Isc (A)</i>	5.70	5.78	5.84	5.93	5.97
<i>Voltage max power Vmp (V)</i>	18.19	18.36	18.56	18.98	19.08
<i>Current max power Imp (A)</i>	4.95	5.18	5.39	5.53	5.77
<i>Module efficiency (%)</i>	13.64	14.39	15.15	15.91	16.67
<i>Cells efficiency (%)</i>	16.31	17.22	18.12	19.03	19.94
<i>System Voltage (V) 1000</i>					
<i>Temp. coefficient Voc (% / °C)</i>	-0.36				
<i>Temp. coefficient Isc (% / °C)</i>	0.06				
<i>Temp. coefficient Pm (% / °C)</i>	-0.36				
<i>Operating temp. (°C)</i>	-40 bis +85				
<i>NOCT (°C)</i>	45±2				
<i>Junction box</i>	2 bypass diodes, IP67				
<i>Wire cross section</i>	(Ø, mm <sup>2</sup> ) 4.0				
<i>Cable length</i>	(mm) 900				
<i>Connector type</i>	MC4/MC4 compatible				
<i>Dimensions</i>	(L x W x H, mm) 1200 x 550 x 35				
<i>Weight</i>	(kg) 5.78				
<i>Cell dimensions</i>	(mm) 125 x 125				
<i>No of cells /assembly</i>	36 / 4 x 9				
<i>Type of cells</i>	mono-crystalline				
<i>Hail resistance Max</i>	. Ø 25 mm at 23 m/s				
<i>Wind load</i>	2400Pa / 244kg / m <sup>2</sup>				
<i>Mechanical load</i>	5400Pa / 550kg / m <sup>2</sup>				

# **TECHNICAL DATA mono crystalline**

## **Series 120W-145W**

<b>Electrical Data</b>	<b>AE120</b>	<b>AE125</b>	<b>AE130</b>	<b>AE135</b>	<b>AE140</b>	<b>AE145</b>
<i>Nominal power Pm (Wp)</i>	120	125	130	135	140	145
<i>Open circuit voltage Voc (V)</i>	28.21	29.29	30.20	30.53	30.62	31.77
<i>Short-circuit current Isc (A)</i>	5.71	5.76	5.81	5.86	5.89	5.90
<i>Voltage max power Vmp (V)</i>	24.15	24.73	25.01	25.58	25.79	25.87
<i>Current max power Imp (A)</i>	4.97	5.06	5.20	5.28	5.43	5.63
<i>Module efficiency (%)</i>	13.88	14.46	15.04	15.61	16.19	16.77
<i>Cells efficiency (%)</i>	16.31	16.99	17.67	18.35	19.03	19.71
<i>System Voltage (V)</i>	1000					
<i>Temp. coefficient Voc</i>	(% / °C) -0.36					
<i>Temp. coefficient Isc</i>	(% / °C) 0.06					
<i>Temp. coefficient Pm</i>	(% / °C) -0.36					
<i>Operating temp.</i>	(°C) -40 bis +85					
Junction box	3 bypass diodes, IP67					
Wire cross section	(Ø, mm <sup>2</sup> ) 4.0					
Cable lenght	(mm) 900					
Connector type	MC4/MC4 compatible					
Dimensions	(L x W x H, mm) 1070 x 808 x 35					
Weight (kg) 7.58						
Cell dimensions	(mm) 125 x 125					
No of cells /	assembly 48 / 6 x 8					
Type of cells	mono-crystalline					
Hail resistance	Max. Ø 25 mm at 23 m/s					
Wind load	2400Pa / 244kg / m <sup>2</sup>					
Mechanical load	5400Pa / 550kg / m <sup>2</sup>					

# **TECHNICAL DATA mono crystalline**

## **Series 190W-215W**

	<b>AE190</b>	<b>AE195</b>	<b>AE200</b>	<b>AE205</b>	<b>AE210</b>	<b>AE215</b>
<i>Nominal power Pm (Wp)</i>	190	195	200	205	210	215
<i>Open circuit voltage Voc (V)</i>	44.20	45.29	45.65	45.87	46.01	47.01
<i>Short-circuit current Isc (A)</i>	5.78	5.81	5.84	5.88	5.92	5.93
<i>Voltage at max power Vmp (V)</i>	37.15	37.51	38.02	38.52	38.81	39.10
<i>Current at max power Imp (A)</i>	5.11	5.20	5.26	5.32	5.41	5.50
<i>Module efficiency (%)</i>	14.88	15.27	15.67	16.06	16.45	16.84
<i>Cells efficiency (%)</i>	17.22	17.67	18.12	18.58	19.03	19.48
<i>System Voltage (V)</i>	1000					
<i>Temp. coeficient Voc</i>	(% / °C) -0.36					
<i>Temp. coeficient Isc</i>	(% / °C) 0.06					
<i>Temp. coeficient Pm</i>	(% / °C) -0.36					
<i>Operating temp. (°C)</i>	-40 bis +85					
Junction box	3 bypass diodes, IP67					
Wire cross section	(Ø, mm <sup>2</sup> ) 4.0					
Cable length	(mm) 900					
Connector type	MC4/MC4 compatible					
Dimensions	(L x W x H, mm) 1580 x 808 x 40					
Weight (kg)	14.43					
Cell dimensions	(mm) 125 x 125					
No of cells /	assembly 72 / 6 x 12					
Type of cells	mono-crystalline					
Hail resistance	Max. Ø 25 mm at 23 m/s					
Wind load	2400Pa / 244kg / m <sup>2</sup>					
Mechanical load	5400Pa / 550kg / m					

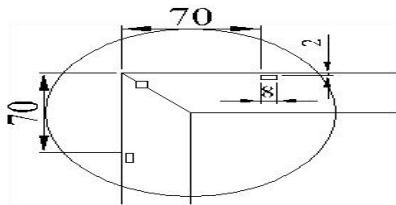
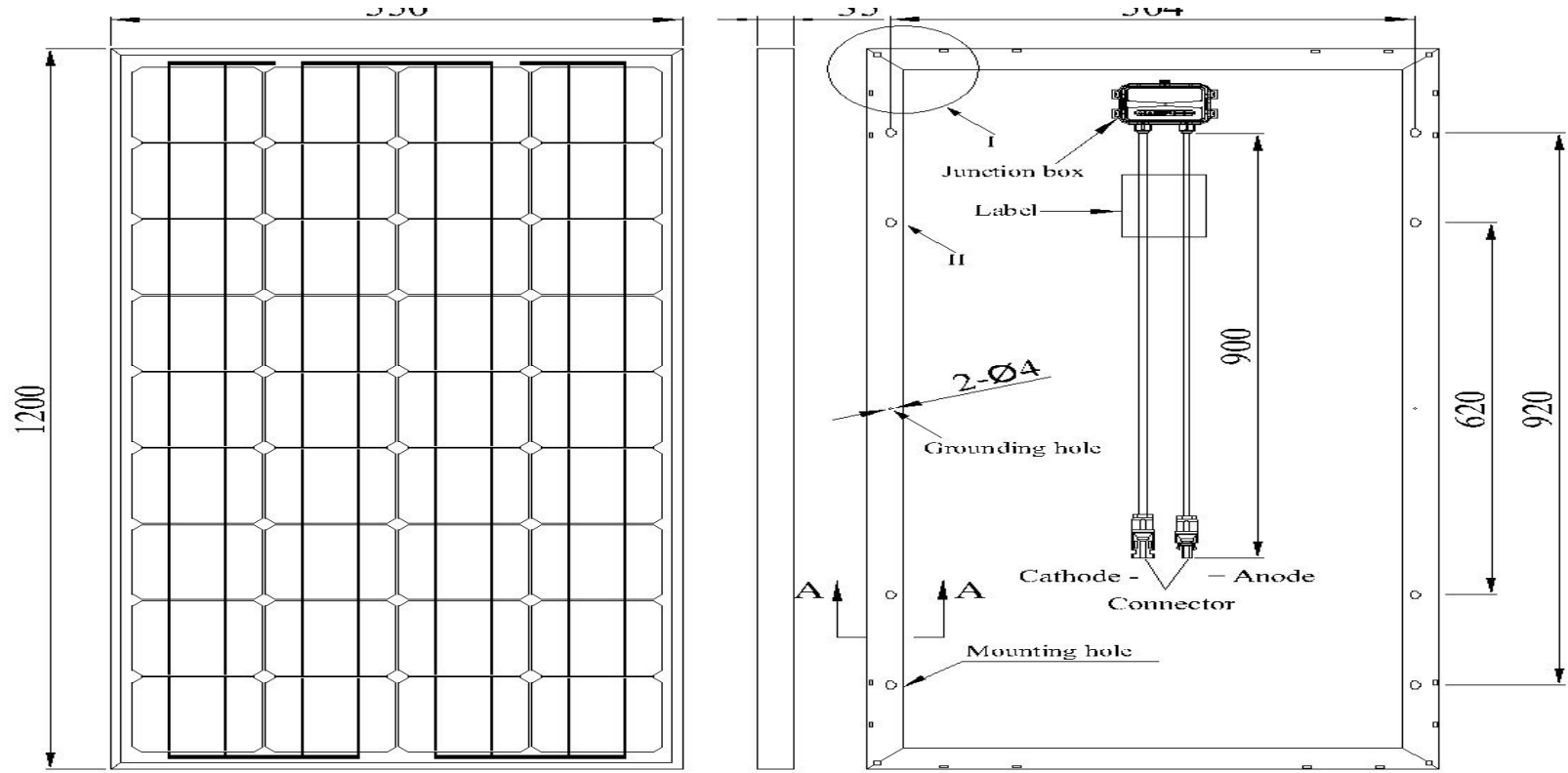
الجزء الاول من الكتالوج

خلايا المانيه مصنوعه داخل المانيا

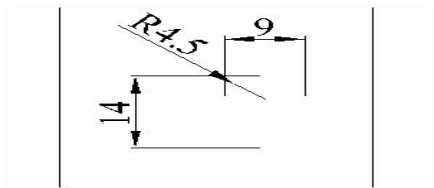
**AE MODULE**



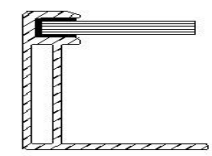
# **AE MODULE poly crystalline**



I



Mounting hole II



Section A-A



## **TECHNICAL DATA poly crystalline**

### **Series 245W-270W**

	<b>AE245</b>	<b>AE250</b>	<b>AE255</b>	<b>AE260</b>	<b>AE265</b>	<b>AE270</b>
<i>Nominal power Pm (Wp)</i>	245	250	255	260	265	270
<i>Open circuit voltage Voc (V)</i>	37.50	37.86	37.98	38.10	38.58	38.76
<i>Short-circuit current Isc (A)</i>	8.75	8.68	8.71	8.79	8.89	8.94
<i>Voltage max power Vmp (V)</i>	31.26	31.62	31.80	32.16	32.52	32.64
<i>Current max power Imp (A)</i>	7.84	7.91	8.02	8.08	8.15	8.27
<i>Module efficiency (%)</i>	15.06	15.37	15.67	15.98	16.29	16.60
<i>Cells efficiency (%)</i>	16.95	17.29	17.64	17.99	18.33	18.68

<i>Junction box</i>	3 bypass diodes, IP67
<i>Wire cross section</i>	( $\emptyset$ , mm <sup>2</sup> ) 4.0
<i>Cable length</i>	(mm) 900
<i>Connector type</i>	MC4/MC4 compatible
<i>Dimensions</i>	(L x W x H, mm) 1640 x 992 x 40
<i>Weight (kg)</i>	18.5
<i>Cell dimensions</i>	(mm) 156 x 156
<i>No of cells /</i>	assembly 60 / 6 x 10
<i>Type of cells</i>	poly-crystalline
<i>Hail resistance Max.</i>	$\emptyset$ 28 mm at 23 m/s
<i>Wind load</i>	2400Pa / 244kg / m <sup>2</sup>
<i>Mechanical load</i>	5400Pa / 550kg / m

## **TECHNICAL DATA poly crystalline**

### **Series 135W-160W**

	<b>AE135</b>	<b>AE140</b>	<b>AE145</b>	<b>AE150</b>	<b>AE155</b>	<b>AE160</b>
<i>Nominal power Pm (Wp)</i>	135	140	145	150	155	160
<i>Open circuit voltage Voc (V)</i>	21.99	22.23	22.43	22.72	22.97	23.15
<i>Short-circuit current Isc (A)</i>	8.21	8.36	8.53	8.68	8.79	8.89
<i>Voltage at max power Vmp (V)</i>	18.11	18.43	18.65	18.97	19.30	19.51
<i>Current at max power Imp (A)</i>	7.45	7.60	7.77	7.91	8.03	8.20
<i>Module efficiency (%)</i>	13.61	14.12	14.62	15.13	15.63	16.14

2 bypass diodes, IP67  
 4.0  
 900  
 MC4/MC4 compatible  
 1480 x 670 x 35  
 10.8  
 156 x 156  
 36 / 4 x 9  
 poly-crystalline  
 Max. Ø 25 mm at 23 m/s  
 2400Pa / 244kg / m<sup>2</sup>  
 5400Pa / 550kg / m<sup>2</sup>

*Junction box*  
*Wire cross section (Ø, mm<sup>2</sup>)*  
*Cable lenght (mm)*  
*Connector type*  
*Dimensions (L x W x H, mm)*  
*Weight (kg)*  
*Cell dimensions (mm)*  
*No of cells / assembly*  
*Type of cells*  
*Hail resistance*  
*Wind load*  
*Mechanical load*

# **TECHNICAL DATA poly crystalline**

## **Series 190W-215W**

	<b>AE190</b>	<b>AE195</b>	<b>AE200</b>	<b>AE205</b>	<b>AE210</b>	<b>AE215</b>
<i>Nominal power Pm (Wp)</i>	190	195	200	205	210	215
<i>Open circuit voltage Voc (V)</i>	27.71	30.10	30.29	30.48	30.77	31.01
<i>short-circuit current Isc (A)</i>	8.46	8.58	8.68	8.74	8.84	8.94
<i>voltage at max power Vmp (V)</i>	24.72	25.01	25.30	25.58	25.87	26.11
<i>Current at max power Imp (A)</i>	7.69	7.80	7.91	8.01	8.12	8.23
<i>Module efficiency (%)</i>	14.51	14.89	15.27	15.66	16.04	16.42

1000	(V)	<i>System Voltage</i>
-0.36	(% / °C)	<i>Temp. coefficient Voc</i>
0.06	(% / °C)	<i>Temp. coefficient Isc</i>
-0.36	(% / °C)	<i>Temp. coefficient Pm</i>
-40 bis +85	(°C)	<i>Operating temp.</i>
45±2	(°C)	<i>NOCT</i>

3 bypass diodes, IP67  
4.0  
900  
MC4/MC4 compatible  
1320 x 992 x 35  
15

*Junction box*  
*Wire cross section (Ø, mm<sup>2</sup>)*  
*Cable lenght (mm)*  
*Connector type*  
*Dimensions (L x W x H, mm)*  
*Weight (kg)*

48 / 6 x 8  
poly-crystalline  
Max. Ø 25 mm at 23 m/s

*No of cells / assembly*  
*Type of cells*  
*Hail resistance*

