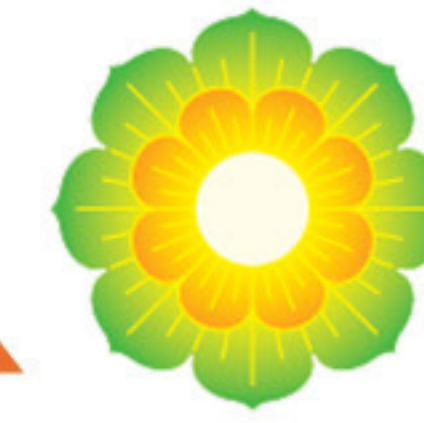
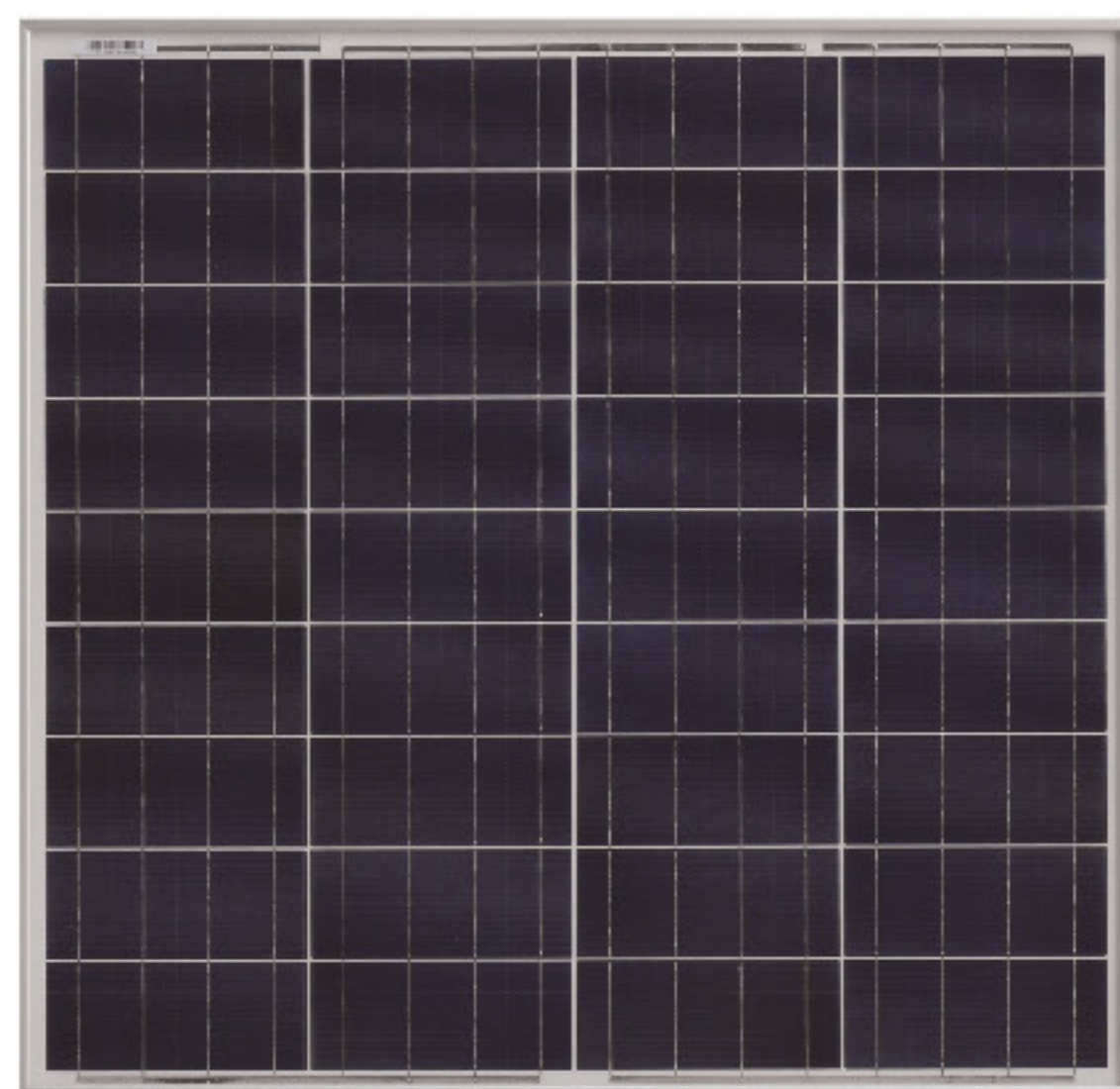




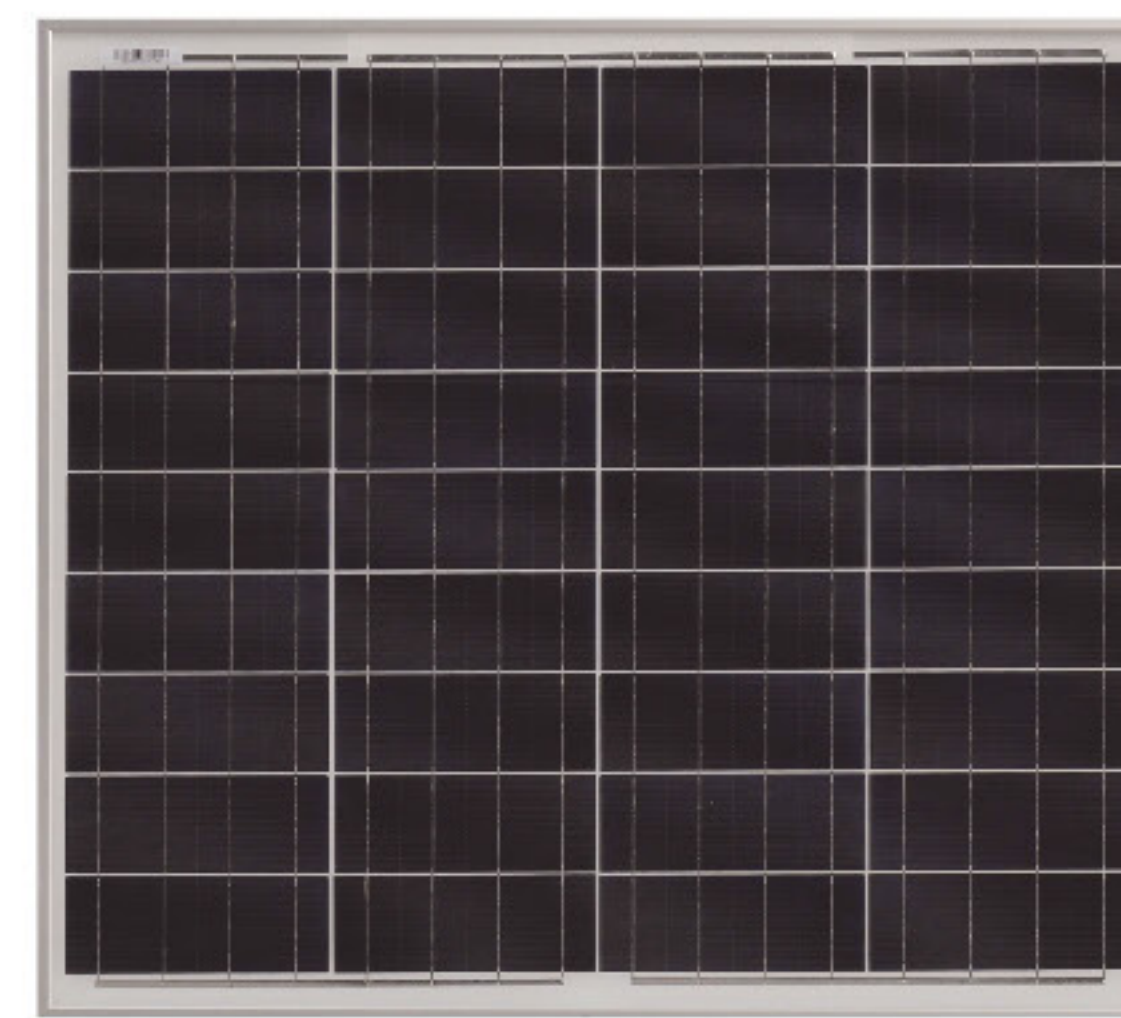
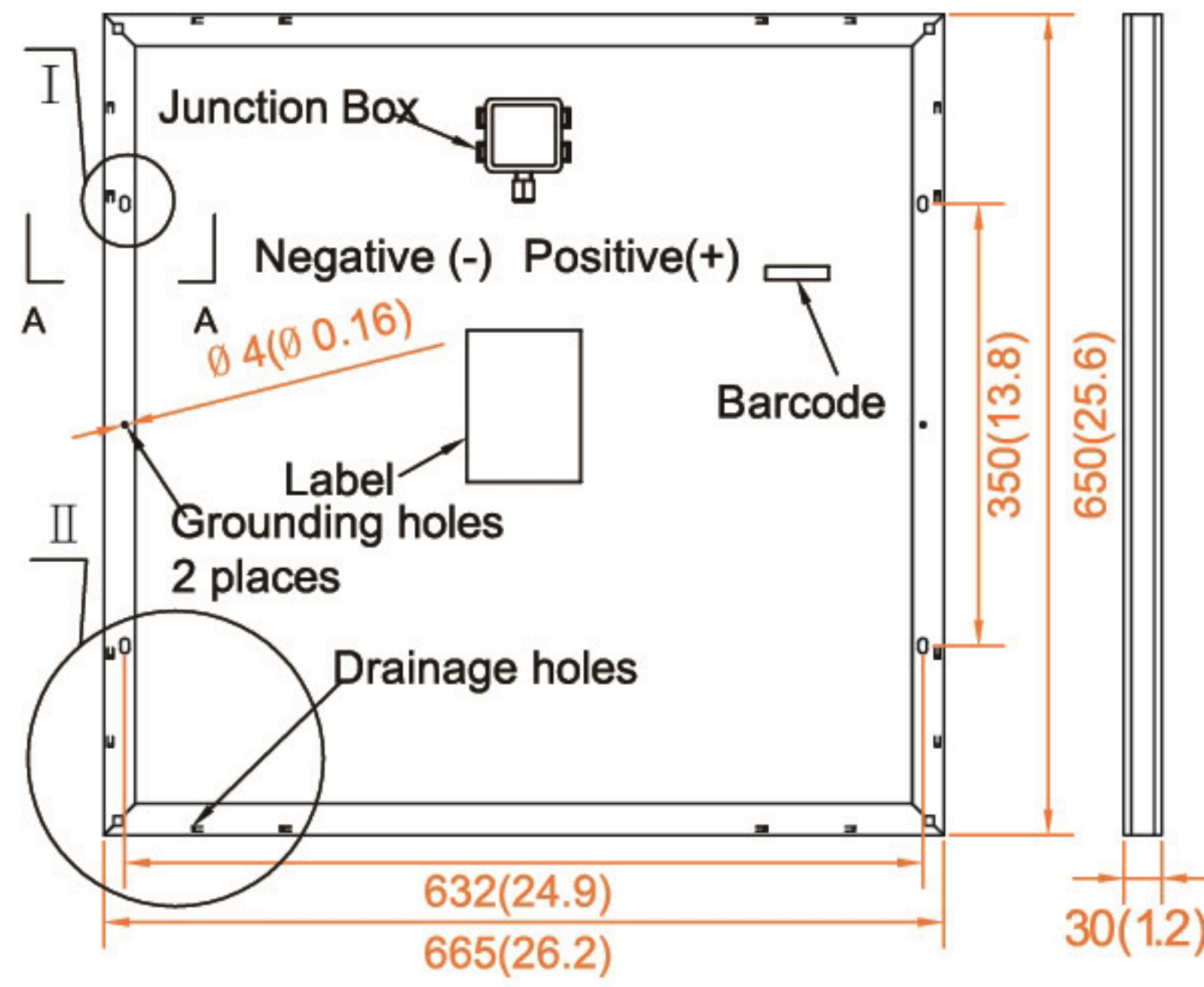
10~65 Watt



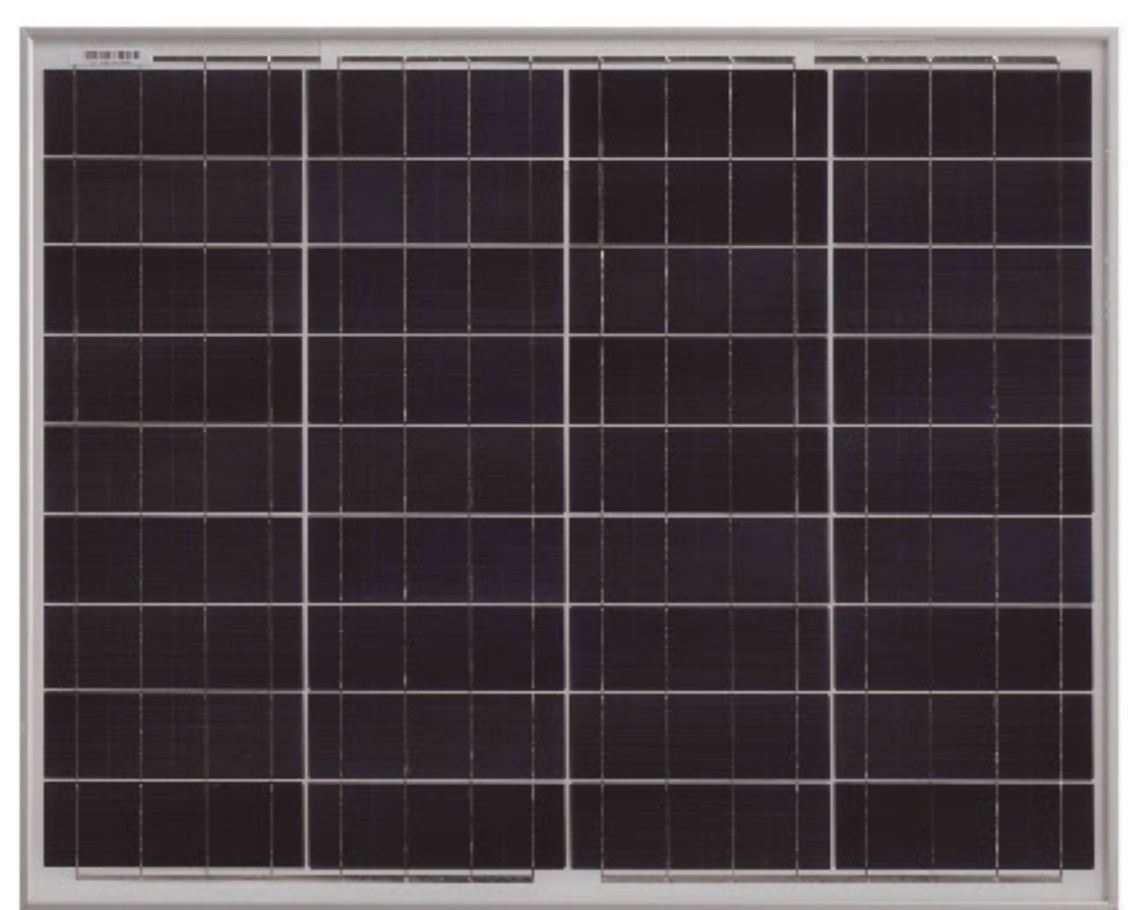
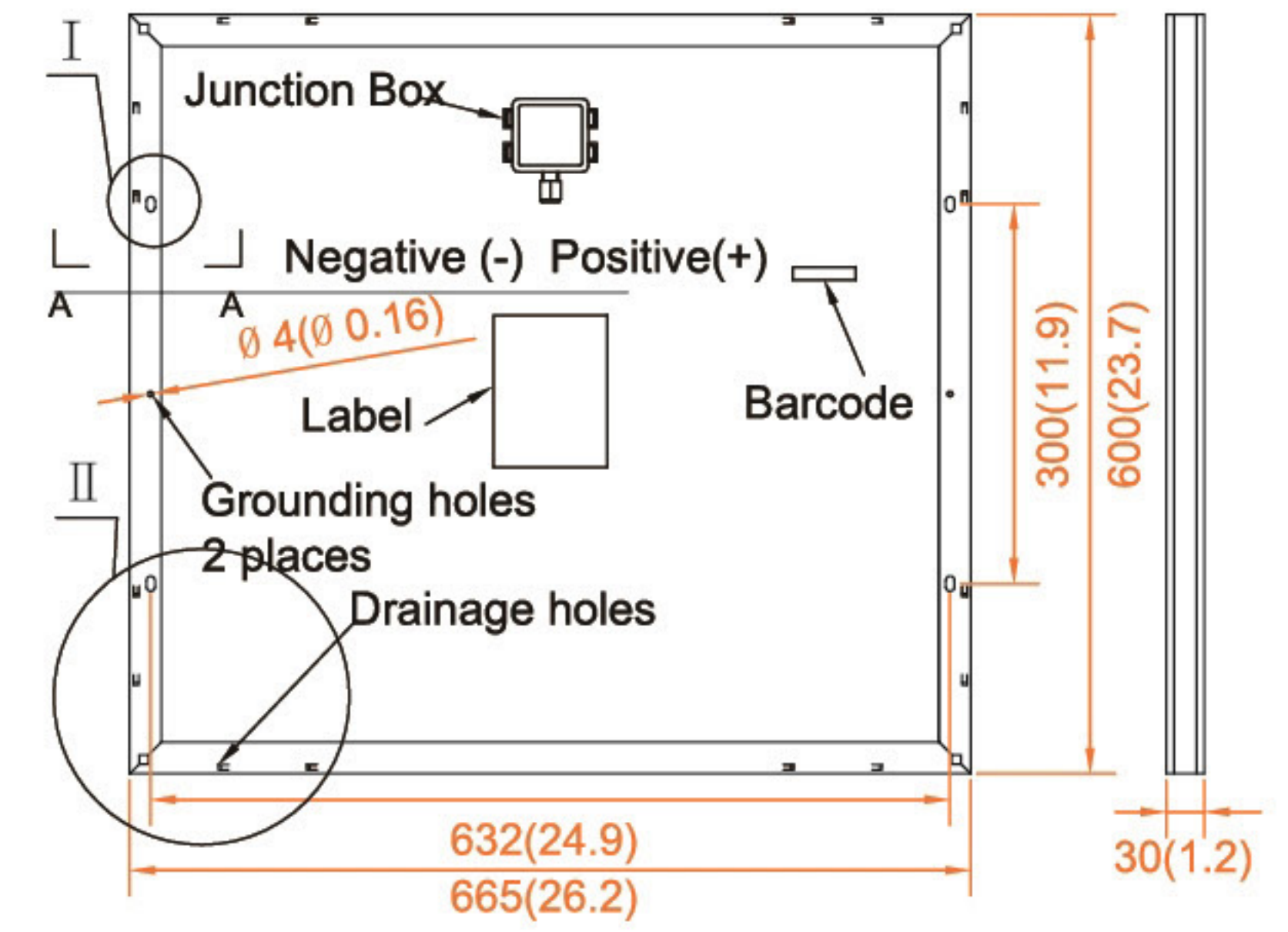
*BLACK FRAME/BLACK BACK-SHEET PRODUCTS ARE AVAILABLE UPON REQUEST



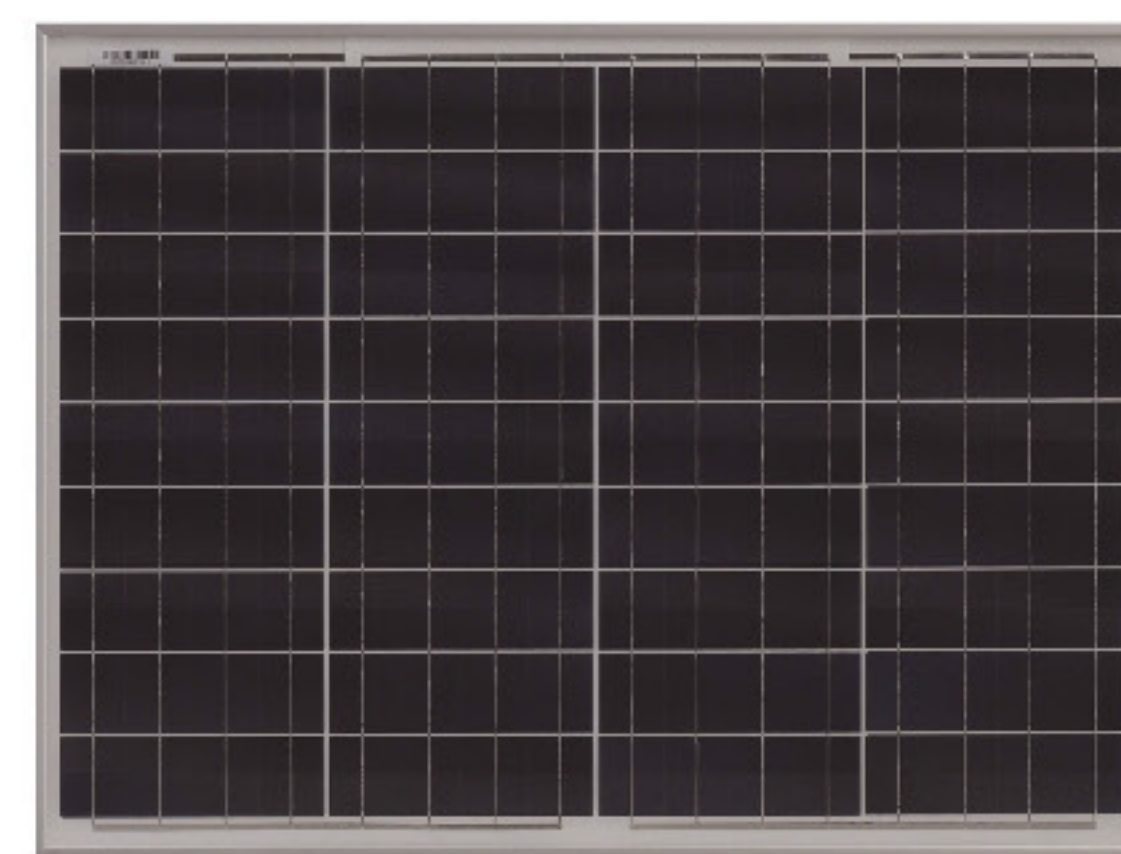
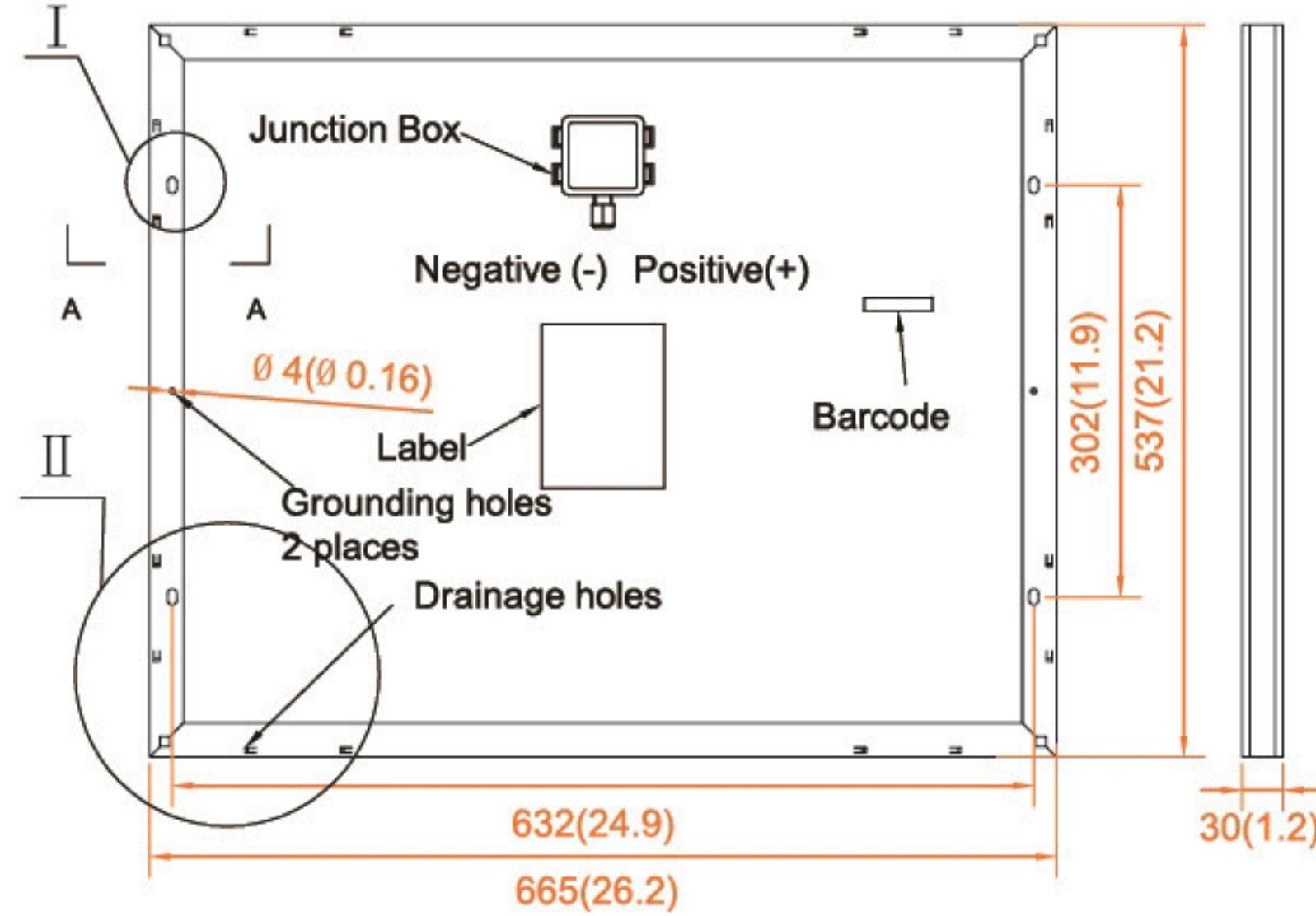
60W-65W



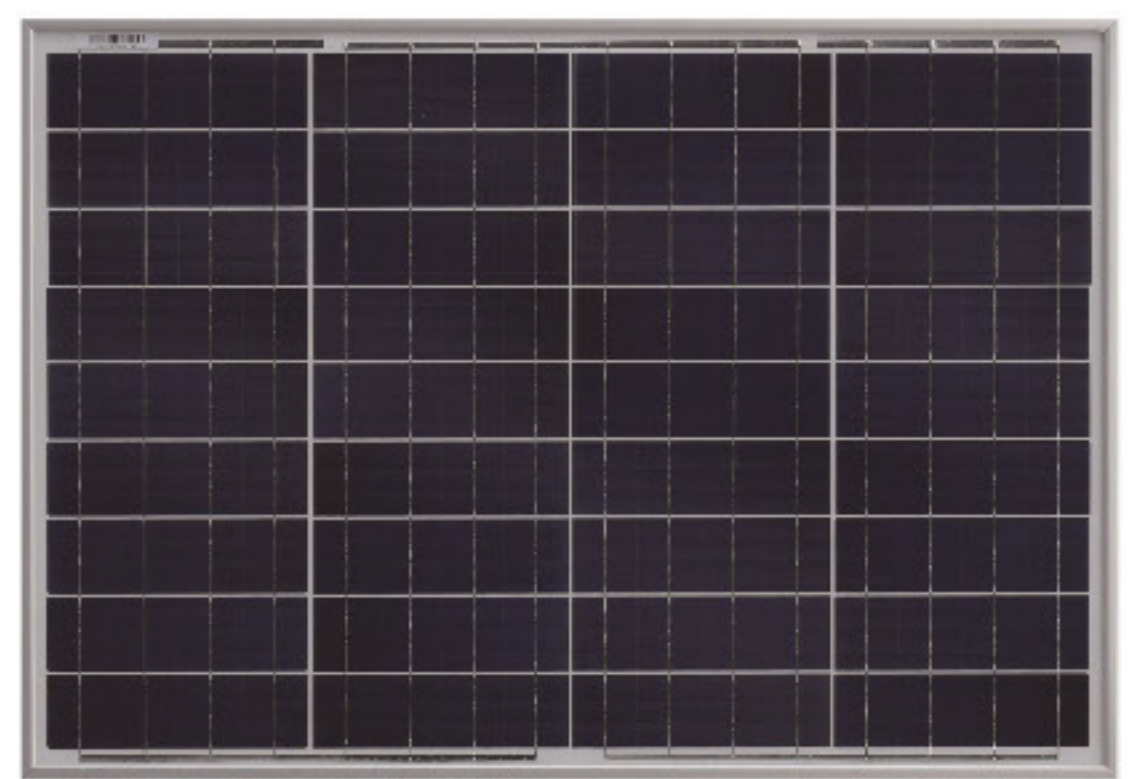
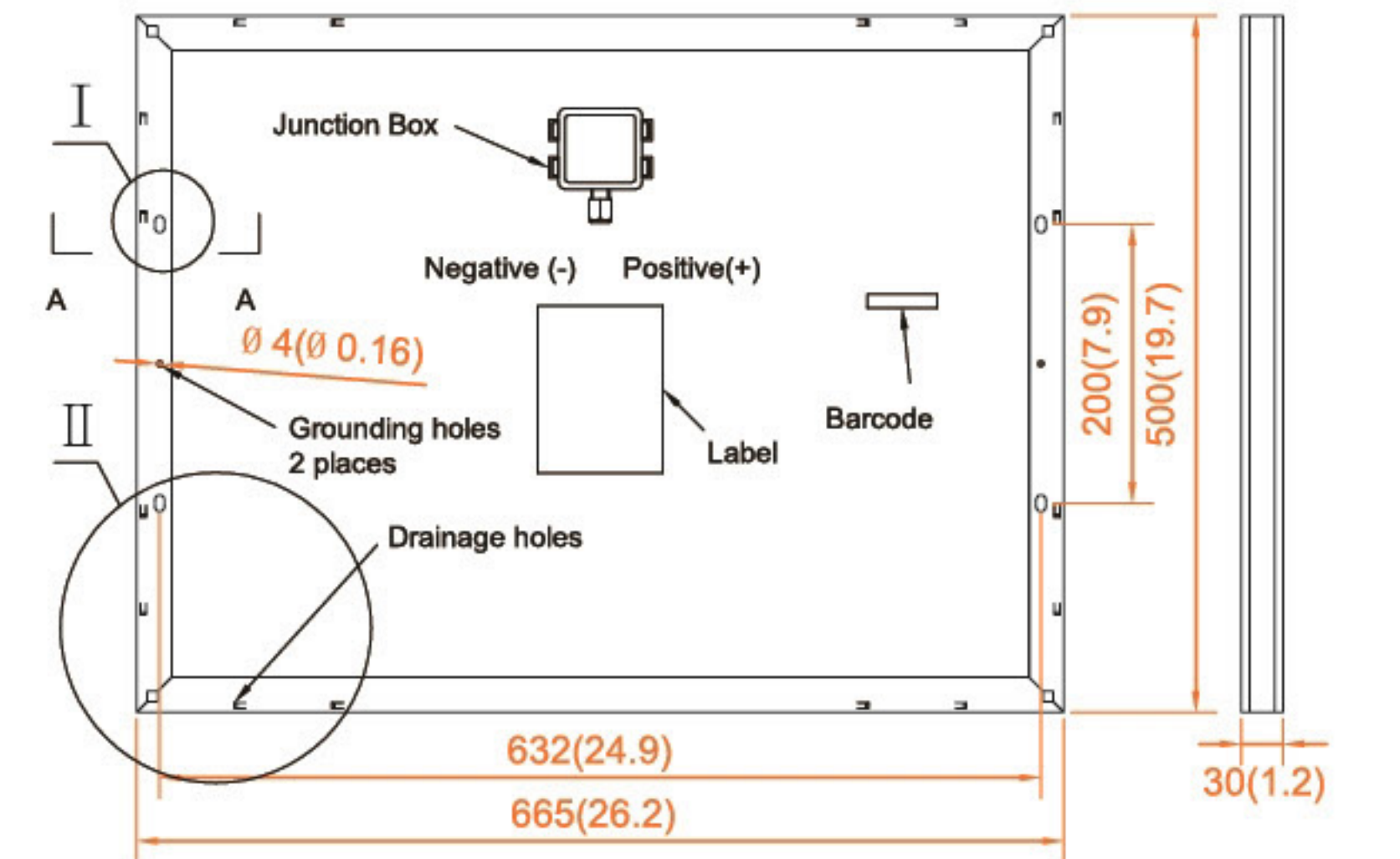
55W



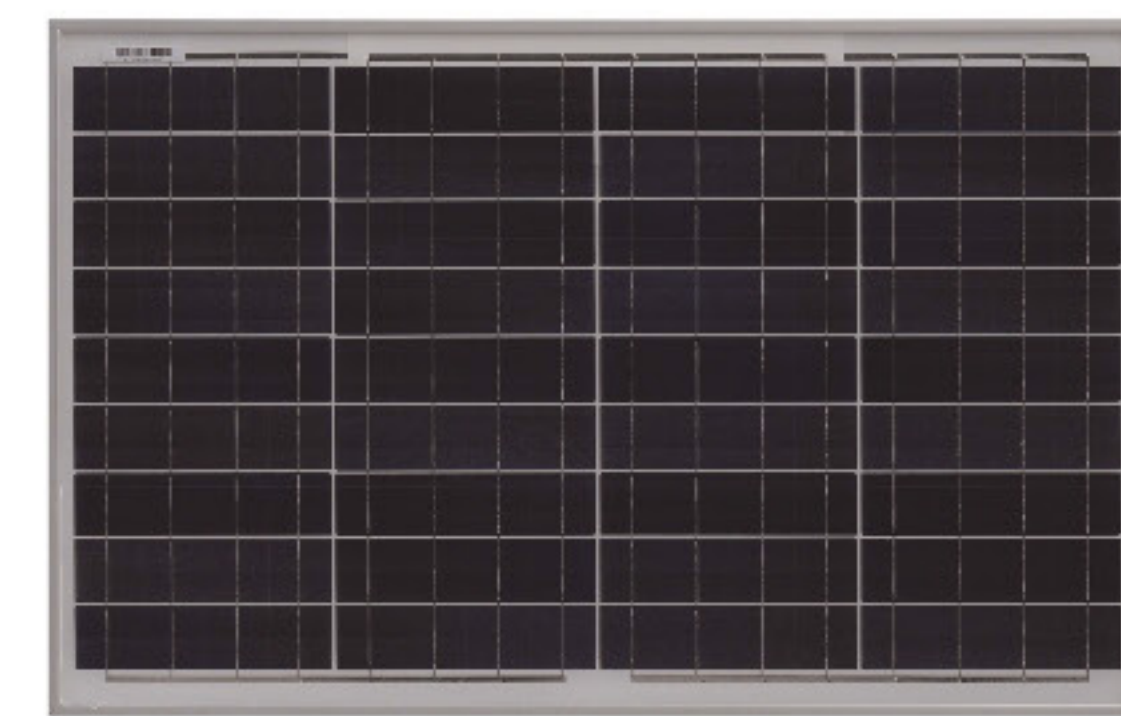
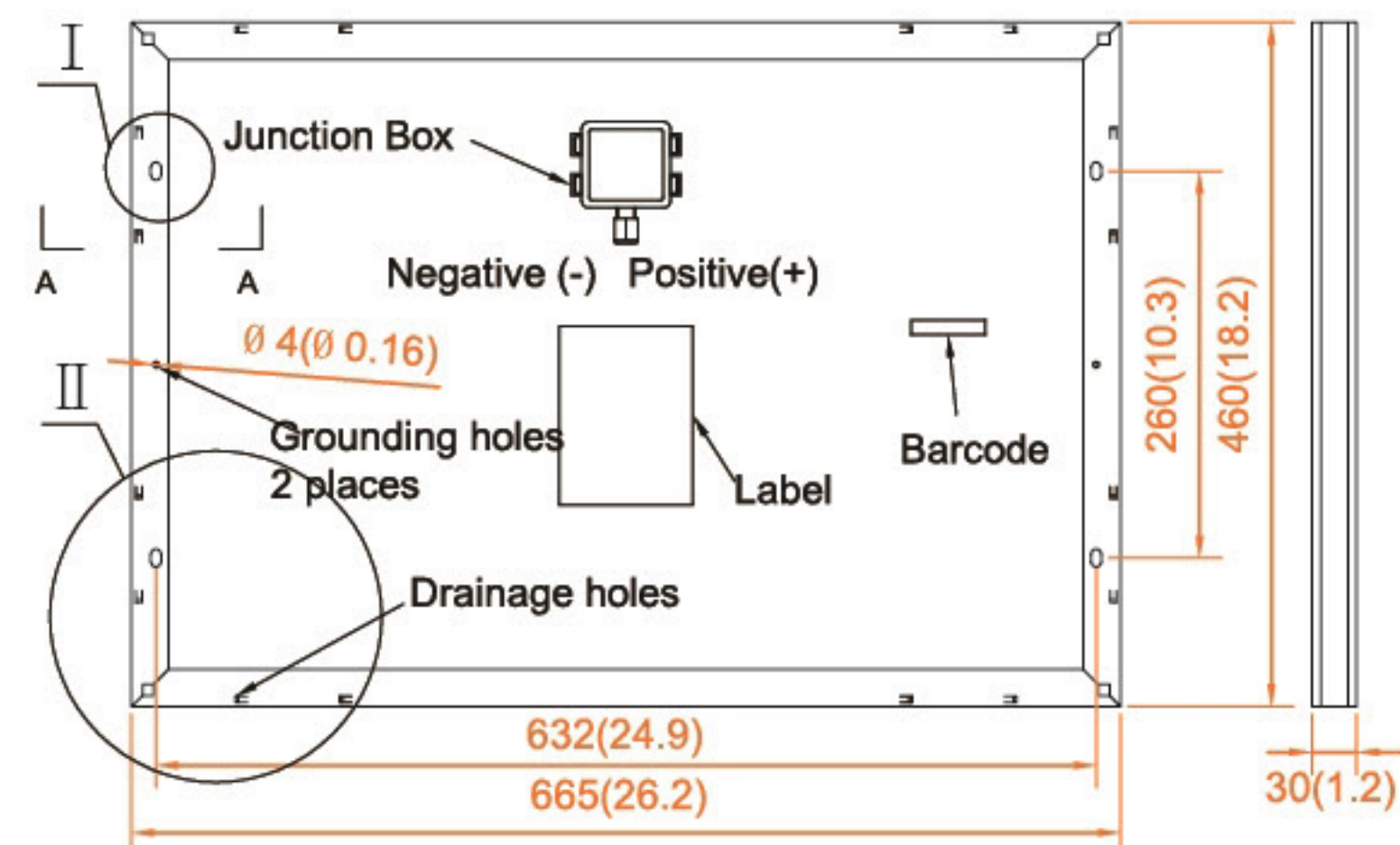
50W



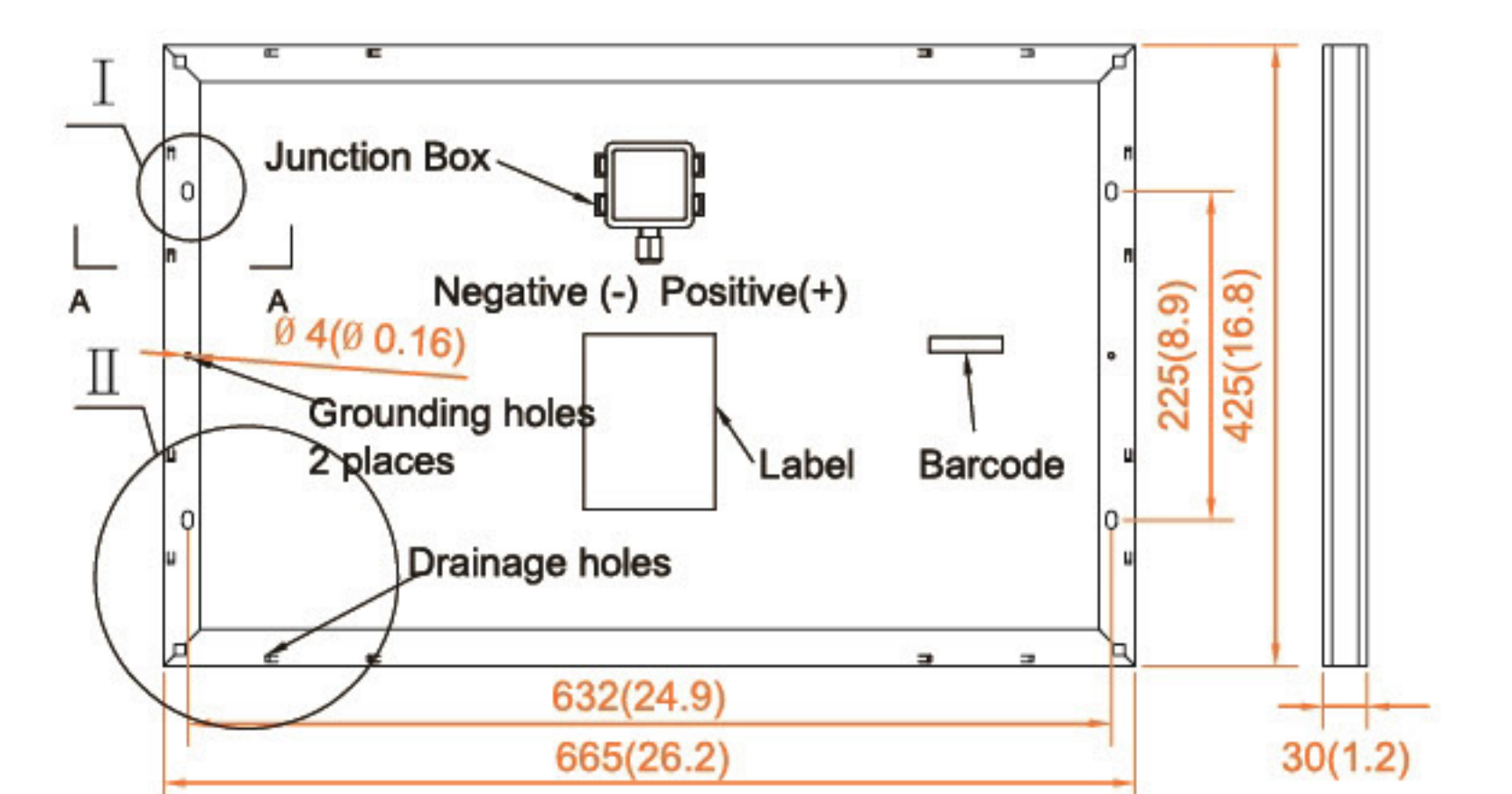
45W



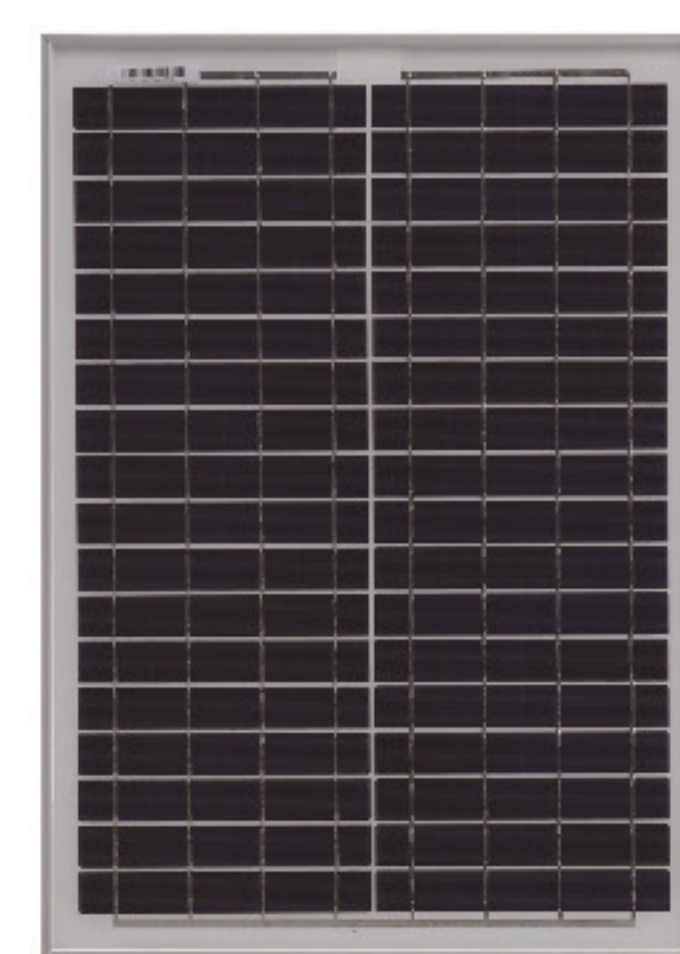
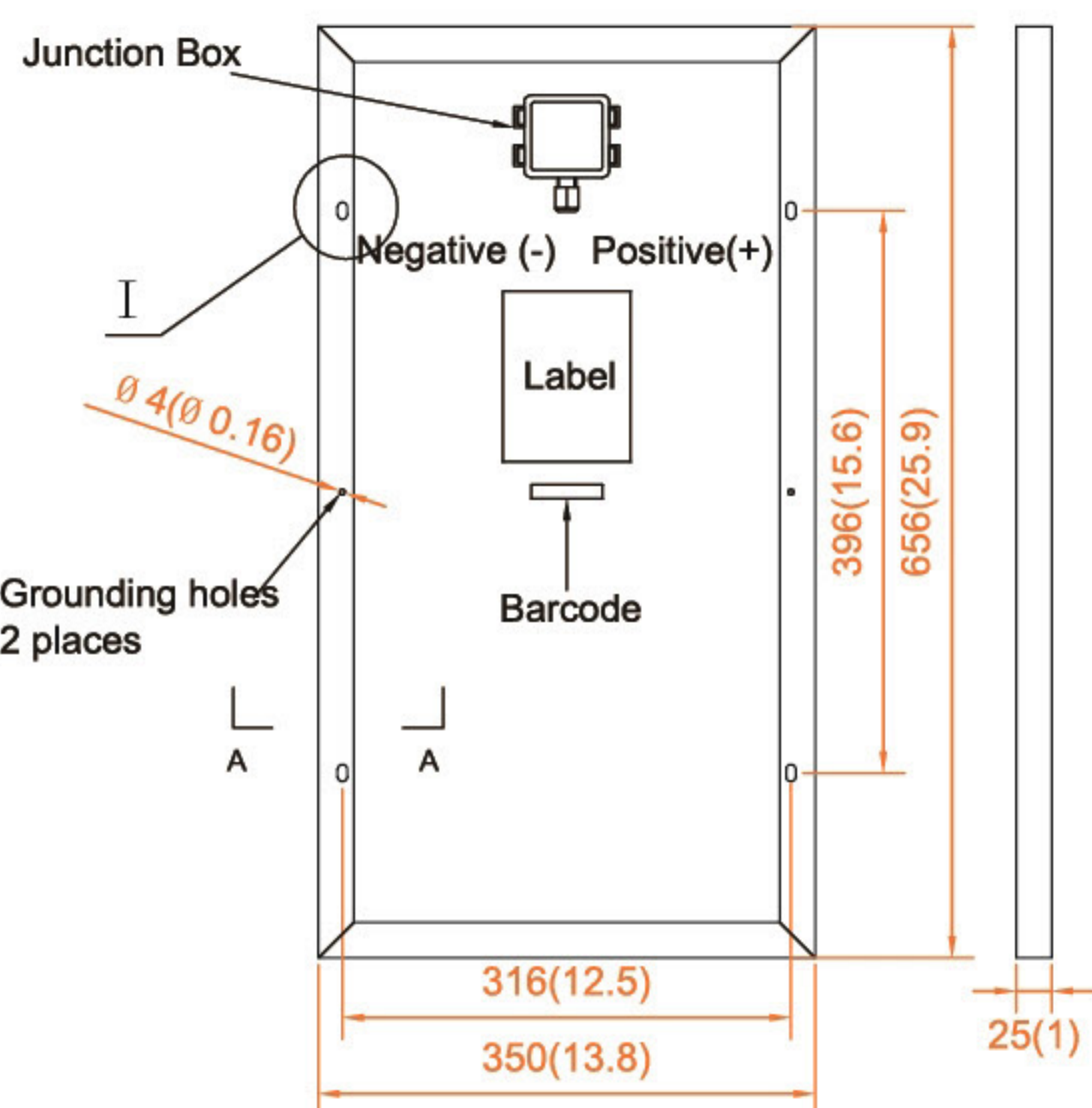
40W



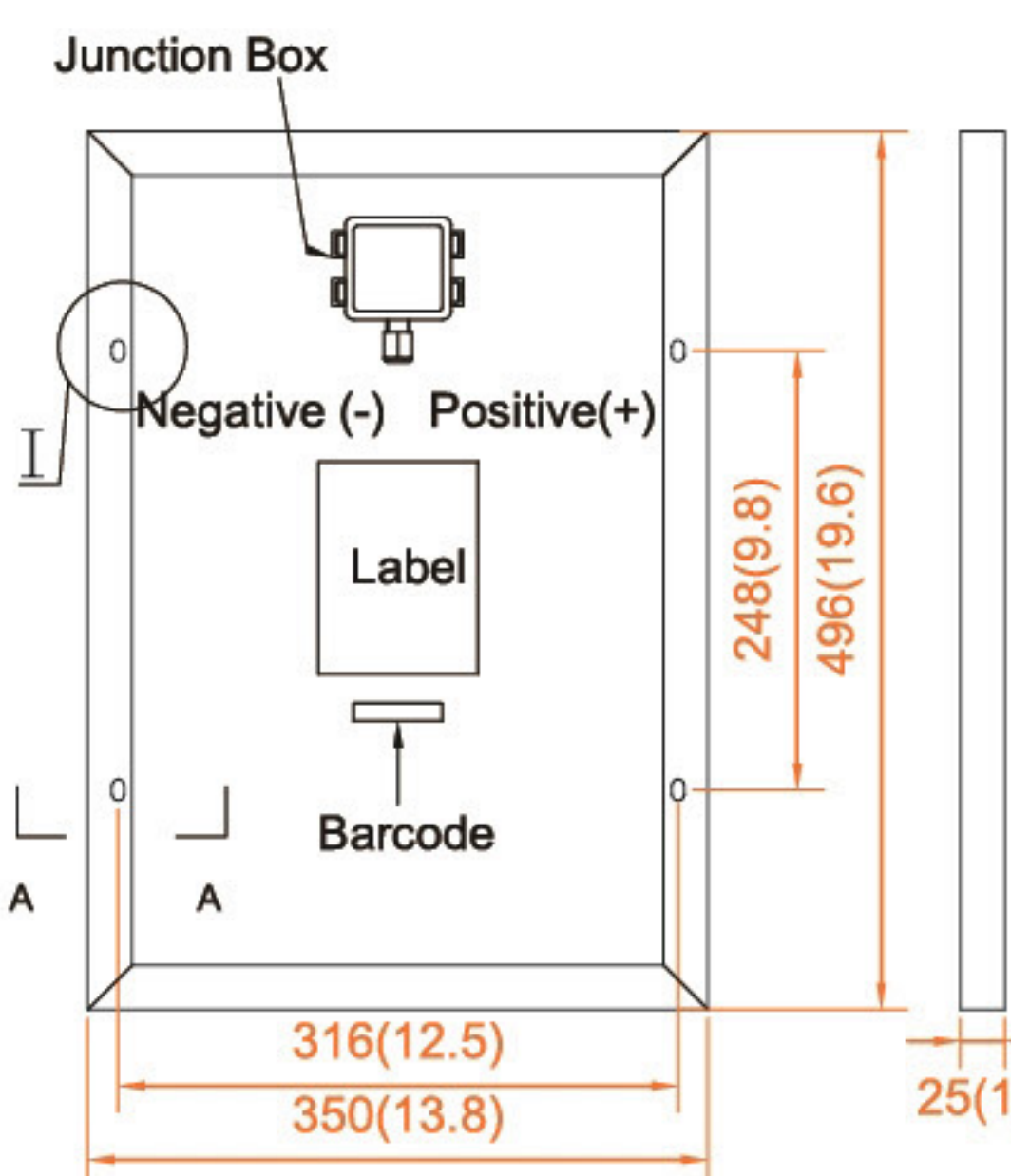
35W



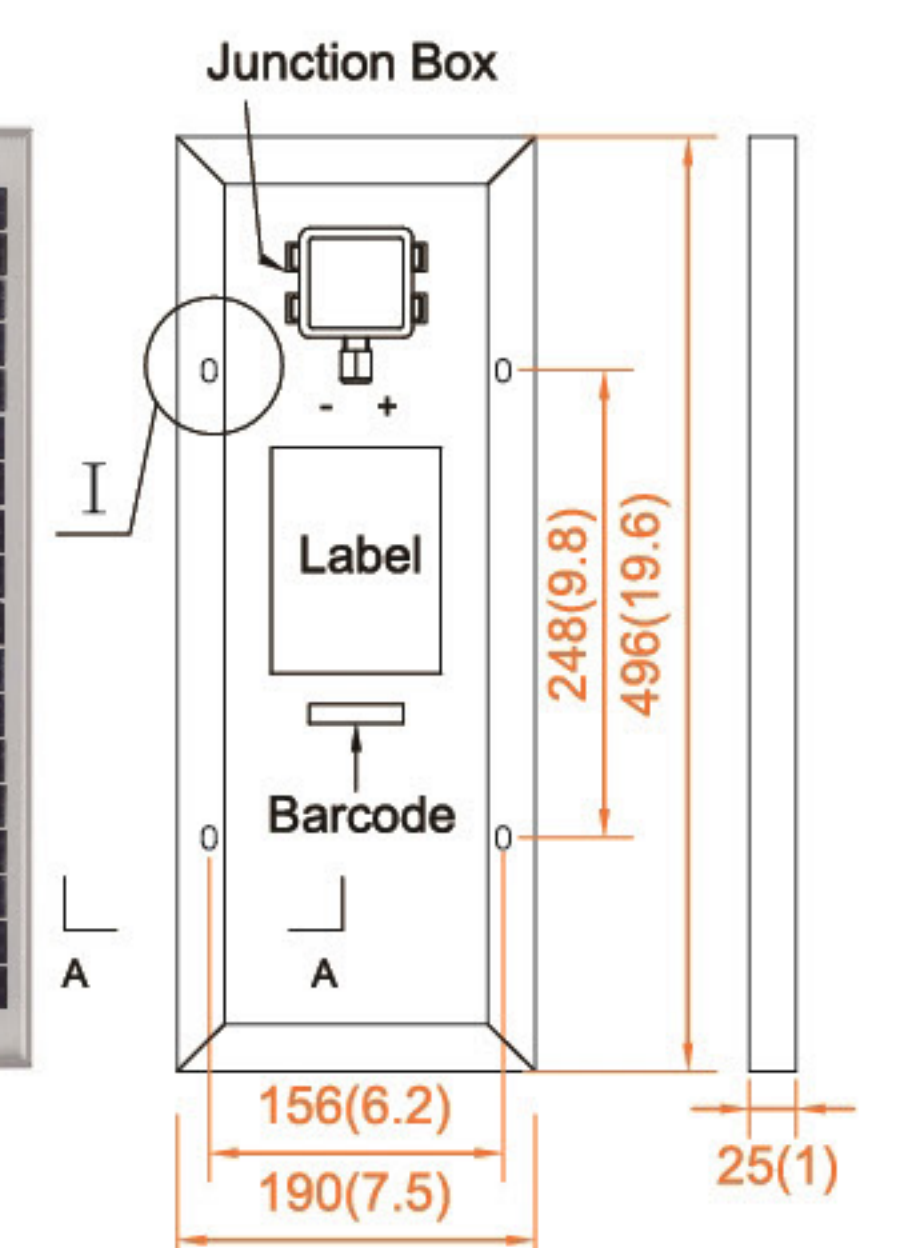
30W



20W

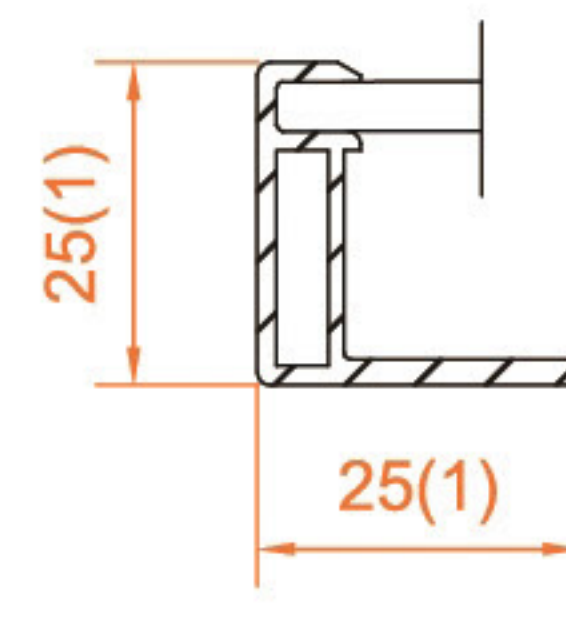
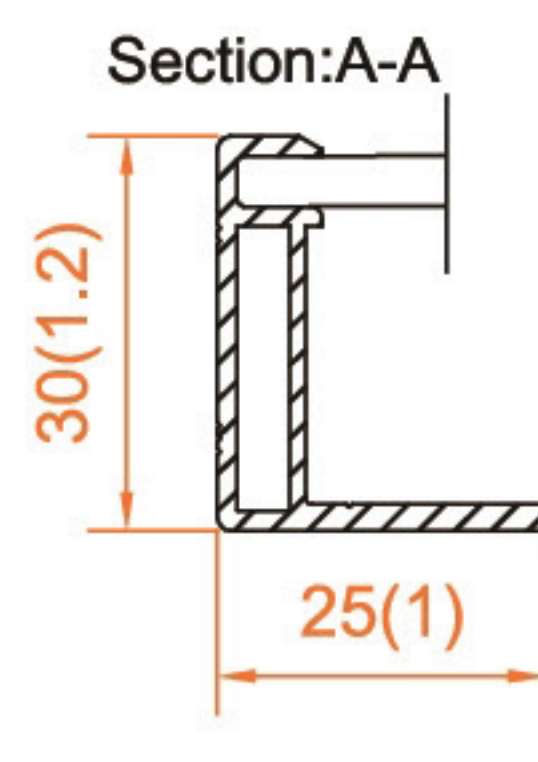
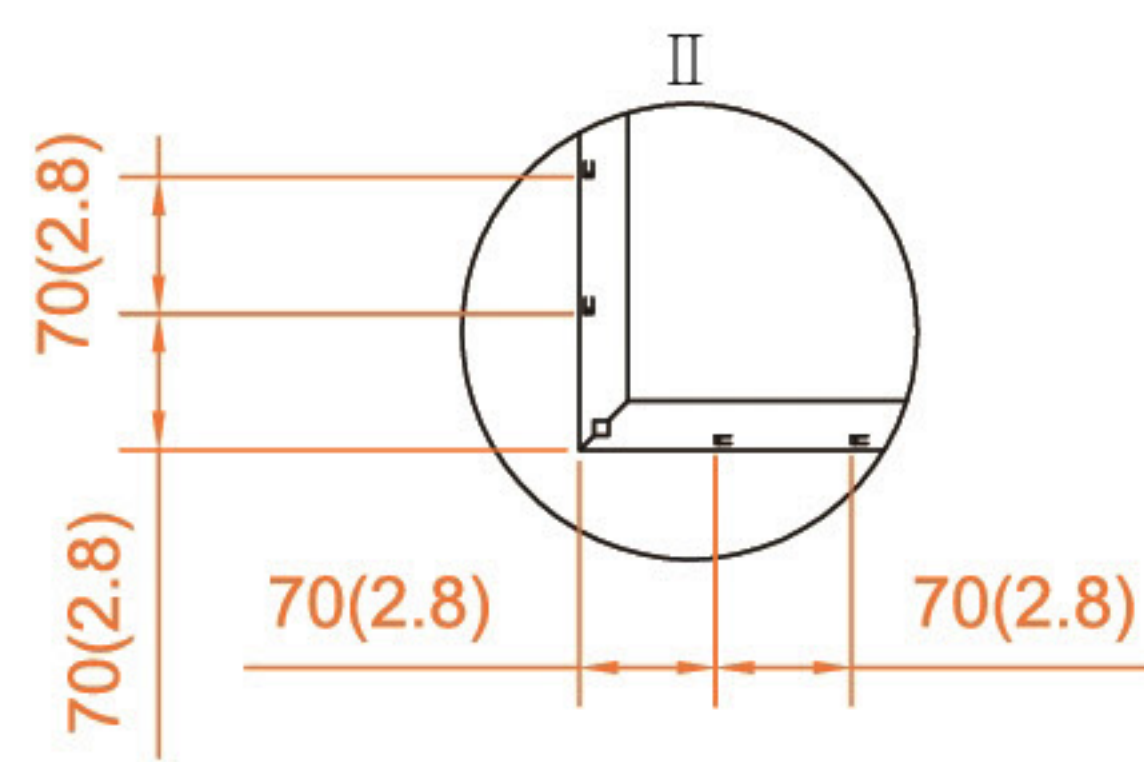
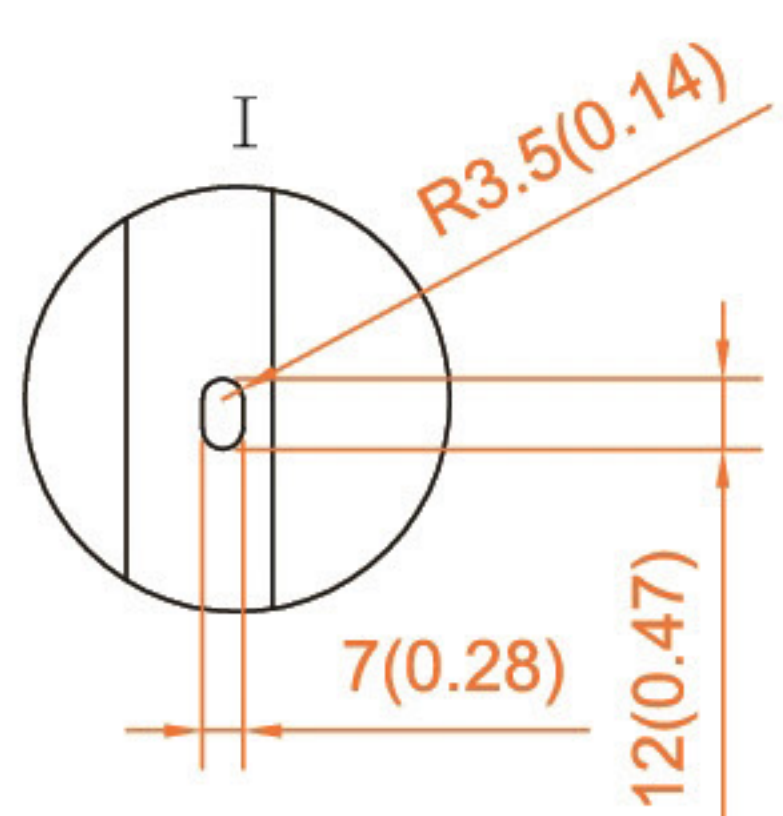


10W



*All Dimensions in mm(inch)

*The above drawing is a graphical representation of the product.
For engineering quality drawings please contact KFSOLAR.



Electrical Characteristics (STC)

Module Type	KF10P-12	KF20P-12	KF30P-12	KF35P-12	KF40P-12
Maximum Power- Pmax(W)	10	20	30	35	40
Open Circuit Voltage - Voc(V)	22.1	22.1	22.6	22.0	22.1
Short- Circuit Current - Isc(A)	0.60	1.19	1.76	2.10	2.39
Voltage at Pmax -Vmp(V)	18.1	18.1	18.4	18.0	18.1
Current at Pmax - Imp(A)	0.55	1.10	1.63	1.94	2.21
Module Efficiency -ηm (%)	10.61	11.52	13.07	12.38	13.08

Module Type	KF45P-12	KF50P-12	KF55P-12	KF60P-12	KF65P-12
Maximum Power- Pmax(W)	45	50	55	60	65
Open Circuit Voltage - Voc(V)	22.2	22.3	22.2	22.2	22.4
Short- Circuit Current - Isc(A)	2.67	2.95	3.26	3.56	3.82
Voltage at Pmax -Vmp(V)	18.2	18.3	18.2	18.2	18.4
Current at Pmax - Imp(A)	2.47	2.73	3.02	3.30	3.53
Module Efficiency -ηm (%)	13.53	14.00	13.78	13.88	15.04

STC: Irradiance 1000W/m², Cell Temperature 25℃, Air Mass 1.5
Power measurement tolerance:0~+3%

Mechanical Specifications

Module Type	KF60P/65P-12	KF55P-12	KF50P-12	KF45P-12
Dimensions	650×665×30mm	600×665×30mm	537×665×30mm	500×665×30mm
Weight	5.2kg	4.8kg	4.3kg	4.0kg
Poly Solar Cells	66×156mm (36pcs)	58.5×156mm (36pcs)	52×156mm (36pcs)	48×156mm (36pcs)

Module Type	KF40P-12	KF35P-12	KF30P-12	KF20P-12	KF10P-12
Dimensions	460×665×30mm	425×665×30mm	656×350×25mm	496×350×25mm	496×190×25mm
Weight	3.7kg	3.4kg	2.5kg	2.0kg	1.2kg
Poly Solar Cells	45×156mm (36pcs)	39×156mm (36pcs)	31.2×156mm (36pcs)	22.28×156mm (36pcs)	22.28×78mm (36pcs)

Front glass	3.2 mm low iron tempered glass	Frame	Anodized aluminum alloy.
Junction Box	IP67	Mechanical Load	5400 Pa

Packing Configuration

Module Type	KF60P/65P-12	KF55P-12	KF50P-12	KF45P-12
Carton Dimensions	665×680×175mm	615×680×175mm	552×680×175mm	515×680×175mm
Pallet Dimensions	1370×1100×2170mm	1270×1100×2170mm	1400×1130×2170mm	1400×1100×2190mm
Pallet Weight	1012.8kg	940.8kg	1110kg	1038kg
Pieces/Pallet	180(5pcs/carton)	180(5pcs/carton)	240(5pcs/carton)	240(5pcs/carton)

Module Type	KF40P-12	KF35P-12	KF30P-12	KF20P-12	KF10P-12
Carton Dimensions	475×680×175mm	440×680×175mm	670×280×365mm	510×390×365mm	510×390×400mm
Pallet Dimensions	1400×1100×2030mm	1360×1100×2170mm	1370×1150×1960mm	1600×1050×1960mm	1600×1050×2135mm
Pallet Weight	961.2kg	996.6kg	1070kg	1190kg	1414kg
Pieces/Pallet	240(5pcs/carton)	270(5pcs/carton)	400(10pcs/carton)	560(14pcs/carton)	1120(28pcs/carton)

I-V Curve (KF50P-12)

