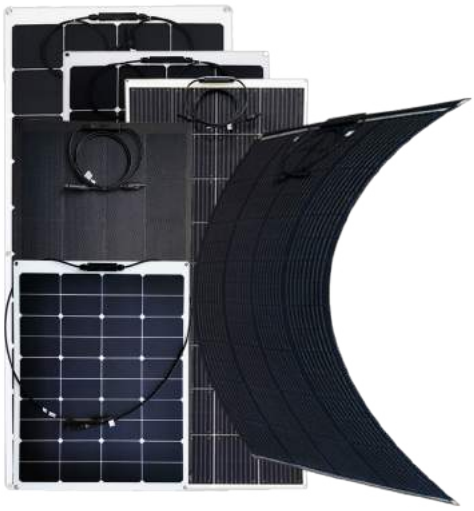
AHONY
Go Solar Gain Power Go Anywhere

Semi Flexible Solar Panel
eGo Series





eGo S series



eGo SM series



eGo P series

Introduction

AHONY Semi flexible solar panel makes by crystalline silicon solar cells including monocrystalline PERC HJT cell,back contact cell,with different backsheet surface and backsheet material,re-orgainize from ETFE,PET,fibreglass backsheet.

eGo S uses SunPower back contact cell,efficiency is high at 25.4%,better weak light performance and little power loss when walk on it,the special inner copper foundation makes cell solid and duarable than other panels.max bend angle 60degree, Suitable for marine,yacht surface,bimini,fish boat,rv roof,golf car,electric bus etc.

eGo SM use PERC or HJT cells,cell efficiency range from 22.7% to 24%,economical solar panels range for same application.

eGo P use fibreglass,max bend 10degree,for application that do not bend like foldable solar panel,shutters,backpack usb solar charger etc.It's half finished solar modules to be integrated to consumer electronic products like portable charger, bluetooth audio,CCTV camera,garden light,floating light,marine products etc.Also for industrial use like mining,oil.

Advantage

OUTDOOR MOBILE SAILING OFF GRID

25.4% Solar Cell Efficiency

Premium quality SunPower Gen 7 back contact solar cells,cell efficiency up to 25.4%,SunPower leads the world top solar cell technology.

60°Max Arc and Aerodynamic

Bendable and the maxium angle is 60degree, for arc 1000mm distance,the bend height is 345mm. Aerodynamic design for all mobile use like caravan, boat,marine,motor etc.

70% Lighter than Rigid Panel

It uses ETFE or TPT surface to replace the rigid glass panel,and remove the aluminium alloy frame,it makes flexible solar panel only 30% weight or less than conventional glass panel.

Reinforced harsh climate resistance

Not only higher qualiy ETFE,but also inner UV resistant anti-corrosion material for more than 15 years.

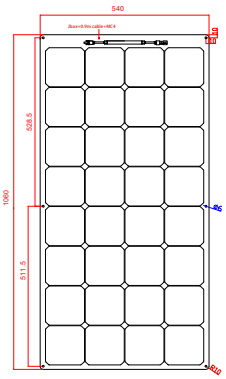
Thin,Resilient and Aesthetic

Plastic surface,no aluminium alloy frame,
Thin at minimum 1.5mm;
Resilient and aesthetic patented back contact cell.

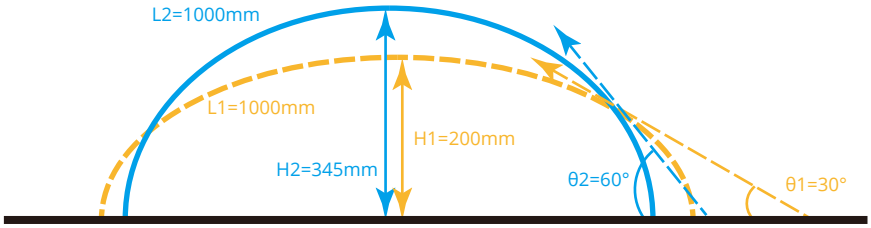
Customize Service

We can make different sizes,shape,parts to meet various needs.Flexible panels passed CE,ROHS certification.





eGo S
PHYSICAL CHARACTERISTICS*



Old semi flexible — NEW AP2 material semi flexible

*25.4% high efficiency back contact cell
*60degree max bend angle using AP2 material
*Reinforced anti-crack material
*Ultrathin and lightweight
*Super weak light performance when shading
*aesthetic and longer lifespan





PRODUCT APPLICATION*

*camping RV motorhome
*boat side,yacht,sailboat,bimini,catamaran marine
*golf cart roof,electrical car
*off grid solar system

MOBILE SAILING OFF GRID OUTDOOR HOME

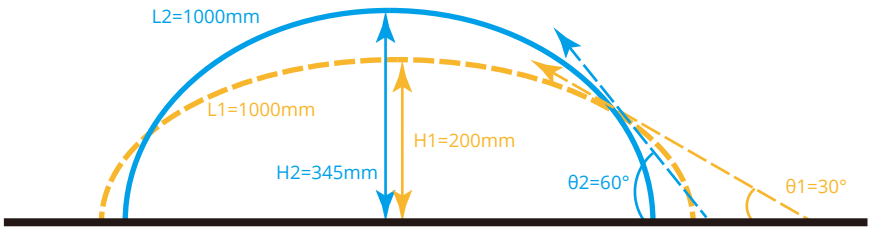
ELECTRICAL PARAMETERS*

Model No.	eGo S60W	eGo S120W	eGo S135W	eGo S155W	eGo S170W	eGo S210W	eGo S250W	eGo S275W
Maximum Power[Wp]	60	120	135	155	170	210	250	275
Solar Cell	Back Contact Solar Cell SunPower Maxeon Gen 7							
Cell Array[Pcs]	4*8	4*8	4*9	4*10	4*11	5*11	6*11	6*12
Cell Efficiency	25.4%	25.4%	25.4%	25.4%	25.4%	25.4%	25.4%	25.4%
Size[mm]	540*560*3	540*1060*3	540*1200*3	540*1325*3	540*1460*3	660*1460*3	660*1460*3	800*1460*3
Max Power Voltage Vmp[V]	20.1	20.1	22.6	25.12	27.63	34.54	41.5	45.21
Max Power Current Imp[A]	5.98	5.98	5.98	6.17	6.16	6.08	6.02	6.09
Open Circuit Voltage Voc[V]	23.11	23.11	26.00	28.89	31.77	39.72	47.73	52.0
Short Circuit Current Isc[A]	6.33	6.33	6.33	6.54	6.46	6.45	6.39	6.45
Net.Weight[kg]	1.5	2.6	2.8	3.0	3.2	3.8	4.8	5.6
NOCT[℃]	45±2	45±2	45±2	45±2	45±2	45±2	45±2	45±2
Operating Temperature[℃]	-40/+85							
Temp.Coeffi.Pmax[%/℃]	-0.30							
Temp.Coeffi.Voc[%/℃]	-0.174							
Temp.Coeffi.Voc[%/℃]	-0.05							
Max System Voltage[V]	1000V DC							
Max Series Fuse Rating[A]	15	15	15	15	15	20	20	20
Safety Class	A	A	A	A	A	A	A	A
Certification	CE,RoHS							
Cables and Connectors	0.9m cable and a pair of MC4 connector							
Standard Test Conditions	STC: 1000W/m², AM 1.5 and cell temp 25°C							

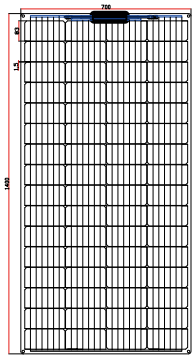
*AHONY offer customize service,please refer to our website or ask AHONY workers for more sizes and the latest parameters.

eGo SM
PHYSICAL CHARACTERISTICS*





Old semi flexible — NEW AP2 material semi flexible



*22.7% PERC 24% HJT efficiency cell front contact
*60degree max instant bend angle using AP2 material
*Reinforced anti-crack material
*Ultrathin and lightweight





PRODUCT APPLICATION*

*camping RV motorhome
*boat,yacht,sailing,bimini,catamaran marine
*golf cart roof,electrical car,car hood
*balcony
*cold chain bus,electric bus
*off grid solar system



ELECTRICAL PARAMETERS*

Model No.	eGo S100M	eGo S150M	eGo S200M	eGo S270M	eGo S300M	eGo S330M
Maximum Power[Wp]	100	150	200	270	300	330
Solar Cell	Mono HJT 158 Solar Cell					
Cell Array[Pcs]	4*9	4*9	4*9	6*8	6*9	6*10
Cell Efficiency	22.7%	22.7%	22.7%	22.7%	22.7%	22.7%
Size[mm]	510*1035*3	680*1145*2	680*1515*2	1000*1355*2	1000*1515*3	1000*1670*3
Max Power Voltage Vmp[V]	20.88	20.88	20.88	27.84	31.32	34.8
Max Power Current Imp[A]	4.79	7.19	9.58	9.7	9.58	9.48
Open Circuit Voltage Voc[V]	24.43	24.43	24.43	32.57	36.64	40.72
Short Circuit Current Isc[A]	5.07	7.61	10.34	10.47	10.34	10.24
Net.Weight[kg]	1.6	2.2	3.2	4.2	4.6	5.0
NOCT[℃]	45±2	45±2	45±2	45±2	45±2	45±2
Operating Temperature[℃]	-40/+85					
Temp.Coeffi.Pmax[%/℃]	-0.252					
Temp.Coeffi.Voc[%/℃]	-0.227					
Temp.Coeffi.Voc[%/℃]	-0.031					
Max System Voltage[V]	1000V DC					
Max Series Fuse Rating [A]	15	20	20	20	20	20
Safety Class	A	A	A	A	A	A
Certification	CE,RoHS,ISO9001					
Cables and Connectors	0.9m cable and a pair of MC4 connector					
Standard Test Conditions	STC: 1000W/m², AM 1.5 and cell temp 25°C					

*AHONY offer customize service,please refer to our website or ask AHONY workers for more sizes and the latest parameters.

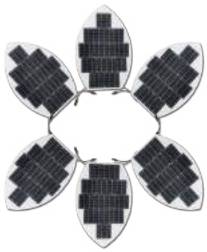
PHYSICAL CHARACTERISTICS*



4w for garden light



7w for marine solar lantern



60w for solar lanscape



Solar integrated products

*Rigid material fibreglass to avoid over bend panel;
*UV resistant,anti-corrosion for outdoor condition;
*Customize to different shapes - round,square, rectangle,trapezoid etc;
*Over 15 years lifespan;
*Super producing ability to meet different industrial or consumer solar integrated products.

PRODUCT APPLICATION*

*garden light
*CCTV camera
*marine floating light,solar lantern
*foldable solar bag
*BIPV,solar tile,solar roof,solar road
*electronics:solar charger,bluetooth audio
*solar fountain
*Road stud
*home appliance,mobile,travel etc,all solar integrated products.

SOLAR BAG MOBILE SAILING OFF GRID OUTDOOR

ELECTRICAL PARAMETERS*

Model No.	eGo P5W	eGo P8W	eGo P20W	eGo P34W	eGo P50W	eGo P100W
Maximum Power[Wp]	5	8	20	34	50	100
Solar Cell	A Grade Mono Solar Cell					
Cell Array[Pcs]	1*12	2*6	2*9	2*18	3*12	4*9
Cell Efficiency	22.5%	22.7%	22.7%	22.7%	22.7%	22.7%
Size[mm]	170*210*2.5	189*226*2	375*365*2	500*420*2	515*530*2	770*730*2
Max Power Voltage Vmp[V]	6.6	6.84	10.44	20.52	20.52	20.52
Max Power Current Imp[A]	0.76	1.17	1.92	1.66	2.44	4.88
Open Circuit Voltage Voc[V]	7.78	8.07	12.11	24.21	24.21	24.21
Short Circuit Current Isc[A]	0.82	1.24	2.03	1.76	2.59	5.16
NOCT[℃]	45±2	45±2	45±2	45±2	45±2	45±2
Operating Temperature[℃]	-40/+85					
Temp.Coeffi.Pmax[%/℃]	-0.30					
Temp.Coeffi.Voc[%/℃]	-0.174					
Temp.Coeffi.Voc[%/℃]	-0.05					
Max System Voltage[V]	1000V DC					
Max Reverse Current[A]	1	1	1	1	1	1
Safety Class	A	A	A	A	A	A
Certification	CE,RoHS,ISO9001					
Cables and Connectors	busbar outlet “+” and “-”					
Standard Test Conditions	STC: 1000W/m², AM 1.5 and cell temp 25°C					

*AHONY offer customize service,please refer to our website or ask AHONY workers for more sizes and the latest parameters.