



SAMSUNG DELIVERS HIGH EFFICIENCY

SP + series

PV-MBA1AG244 / PV-MBA1AG247 / PV-MBA1AG250



High Efficiency
Samsung solar modules deliver high efficiency, requiring less installation space and lower BOS costs.



Positive Power Output Tolerance
Samsung solar modules and cells avoid any power loss due to its positive output tolerance (0 ~ +2%) and narrow sorting range.



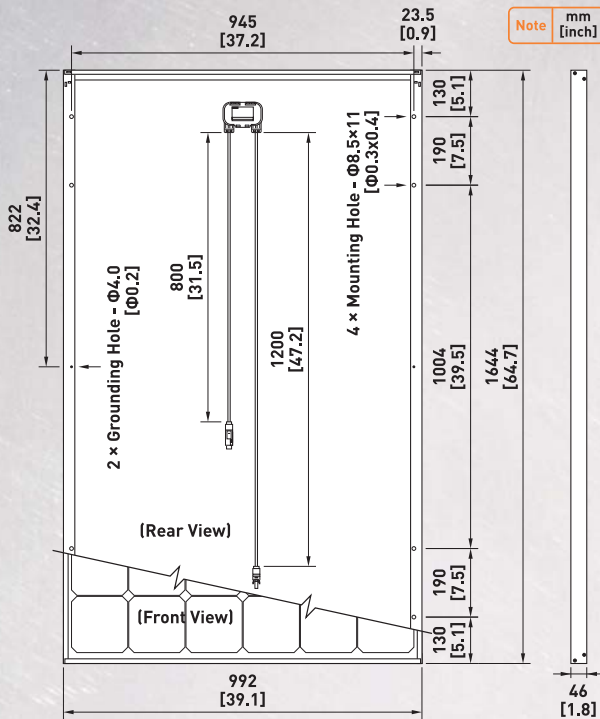
Superior Durability
Samsung solar modules are certified to withstand high pressure: wind loads (2,400Pa), snow loads (5,400Pa).



Strict Quality Test
Samsung solar modules are best-in-class thanks to our quality assurance system following international standard IEC 61215.



Eco-Friendly
Following PV Cycle program, Samsung solar modules will be collected and recycled at the end of their useful life.



Physical characteristics		
Cells per module	60	
Cell type	Mono-crystalline silicon	
Module dimensions	1644x992x46mm (64.7x39.1x1.8 inches)	
Module weight	20.2kg (44.5 lbs)	
Front Glass	Low iron tempered glass	
Junction box	Connector type	MC4
	IP grade	IP65
	Output cables	(-) 800mm, (+) 1200mm
		(-) 31.5 inches, (+) 47.2 inches

Temperature coefficients	
NOCT	45 ± 2°C
TC Isc	0.033%/K
TC Voc	-0.327%/K
TC Pmax	-0.444%/K

(NOCT : Nominal Operating Cell Temperature)

Packing configuration	
Container	40'HC
Pieces per pallet	20
Pallets per container	26

Measured at STC : Irradiance 1000W/m ² , AM 1.5, and cell temperature 25°C				
Maximum power	P _{max} (Wp)	244	247	250
Maximum power voltage	V _{mp} (V)	30.3	30.4	30.6
Maximum power current	I _{mp} (A)	8.06	8.13	8.17
Open circuit voltage	V _{oc} (V)	37.3	37.5	37.8
Short circuit current	I _{sc} (A)	8.55	8.59	8.62
Module efficiency		14.96%	15.15%	15.33%

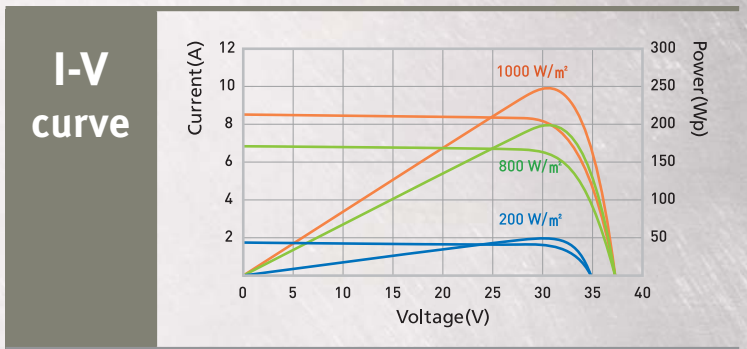
Measured at NOCT : Irradiance 800W/m ² , ambient temperature 20°C, wind speed 1m/s				
Maximum power	P _{max} (Wp)	176	179	182
Maximum power voltage	V _{mp} (V)	27.9	28.1	28.4
Maximum power current	I _{mp} (A)	6.52	6.56	6.65
Open circuit voltage	V _{oc} (V)	33.9	34.2	34.5
Short circuit current	I _{sc} (A)	6.79	6.89	6.97

* Power output may vary by 0% / +2% and other electrical parameters by ±3%.

System integration parameters	
Maximum system voltage (IEC)	1,000 V
Maximum system voltage (UL)	600 V
Maximum series fuse rating	15 A
Limiting reverse current	15 A

Safety ratings & Warranties	
Fire Safety Classification	Class C
Certifications	IEC 61215, IEC 61730, UL 1703
Warranty	10 years limited product warranty
Performance guarantee	10 years limited warranty of 90% power output
	25 years limited warranty of 80% power output

Qualification test	
Temp cycling range	-40°C to 85°C for 200cycles
Damp heat test	85°C and 85% relative humidity for 1000hr
Front load test (Snow)	5400Pa
Rear static load test (Wind)	2400Pa
Hailstone impact test	25mm hail at 23m/s from 1m distance



* All data subject to change without prior notice.

Dealer information box

SAMSUNG SDI CO., LTD.
 San# 24 Nongseo-Dong, Giheung-Gu, Yongin-City, Gyeonggi-Do, Korea 446-711
<http://www.samsungsdi.com> | Latest update : September 2011
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