

# Samsung takes on the Solar Challenge



Developing viable solar power systems is one of the great tasks facing the world today, and Samsung is now in the race.

We are poised to repeat our success in solar power generation. Our track record speaks for itself.

		LPC235S	LPC238S	LPC241S	LPC244S	LPC247S	LPC250S
<b>Performance under standard conditions</b>							
Maximum power	Pmax (Wp)	235	238	241	244	247	250
Maximum power voltage	Vmp (V)	29.9	30.0	30.1	30.3	30.4	30.5
Maximum power current	Imp (A)	7.88	7.94	8.01	8.07	8.14	8.20
Open circuit voltage	Voc (V)	37.2	37.3	37.4	37.5	37.6	37.6
Short circuit current	Isc (A)	8.47	8.51	8.54	8.58	8.62	8.66
<b>Performance at 800 W/m<sup>2</sup>, NOCT, AM 1.5</b>							
Maximum power	Pmax (Wp)	188	190	194	196	198	200
Maximum power voltage	Vmp (V)	30.4	30.2	30.3	30.4	30.5	30.9
Maximum power current	Imp (A)	6.21	6.31	6.43	6.48	6.49	6.51
Open circuit voltage	Voc (V)	37.2	37.3	37.4	37.3	37.4	37.6
Short circuit current	Isc (A)	6.65	6.66	6.84	6.88	6.89	6.90
Module efficiency		14.68%	14.87%	15.06%	15.24%	15.43%	15.62%

\* The rated power may only vary by -0W/+2.99W and all other electrical parameters by ± 3%

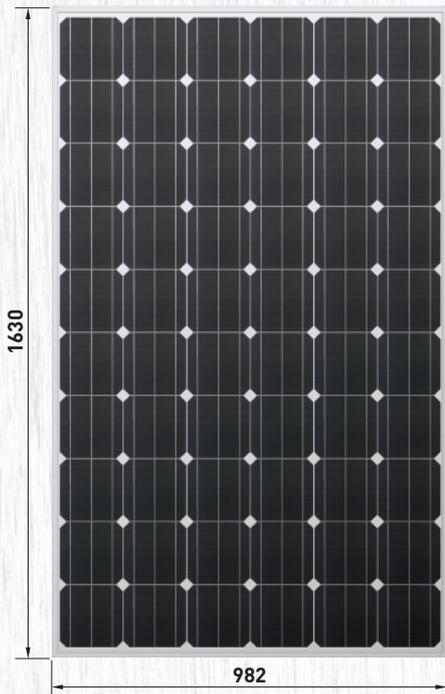
<b>System integration parameters</b>	
Maximum system voltage (IEC)	1,000 VDC
Maximum system voltage (UL)	600 VDC
Maximum series fuse rating	15 A
Maximum reverse current	Do not apply external voltages larger than Voc to the module

<b>Safety Ratings &amp; Warranties</b>	
Fire Safety Classification	Class C
Certifications	UL 1703, CEC, IEC61215, IEC61730
Warranty	5 years limited product warranty
Performance guarantee	10 years limited warranty of 90% power output
	25 years limited warranty of 80% power output

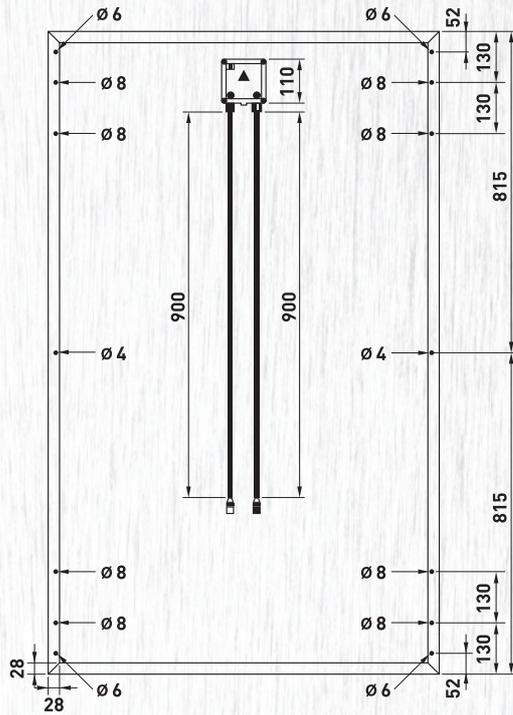
<b>Qualification Test</b>	
Temp cycling range	-40°C to 85°C for 200cycles (예시)
Damp heat test	85°C and 85% relative humidity for 1000hr (예시)
Rear static load test(Wind)	2400Pa (예시)
Front load test (Snow)	5400Pa (예시)
Hailstone impact test	25mm hail at 23m/s from 1m distance (예시)



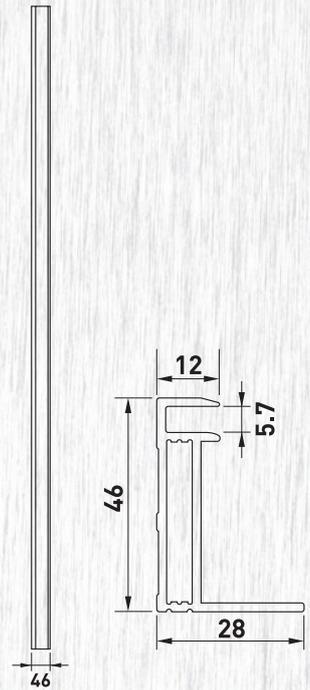
### Front



### Rear



### Side



#### Physical characteristics (UL, VDE)

Cells per module	60
Cell type	Mono-crystalline silicon
Module dimensions	1630 x 982 x 47mm 64.17 x 36.66 x 1.85 inch
Module weight	18.6kg (41 lbs)
Junction box	IP65
Frame	Anodized Aluminum
Front Glass	3.2mm(0.13inches) Tempered glass
Output Cable	(-)900mm, (+)900mm (-)35.43inch, (+)35.43inch

#### Temperature coefficients

NOCT	46±2°C
TC Isc	0.07 %/K
TC Voc	-0.35 %/K
TC Pmax	-0.48 %/K

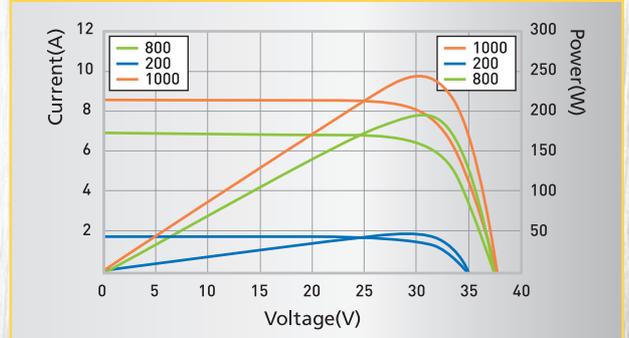
(NOCT : Nominal Operating Cell Temperature)

#### Packing Configuration

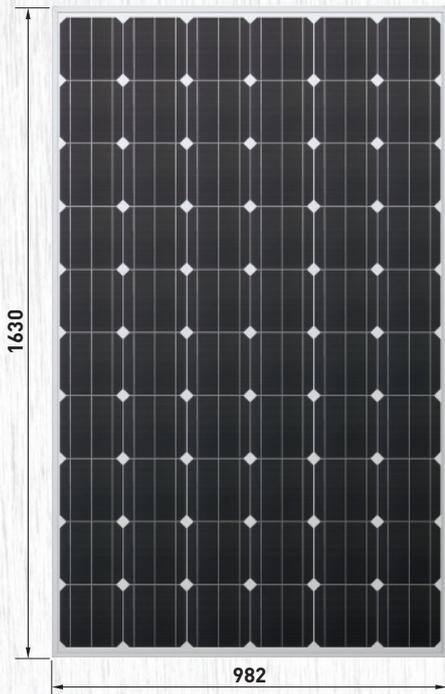
Container	40'HC
Piece per pallet	20
Pallets per container	28

**SAMSUNG ELECTRONICS CO., LTD.**  
San# 24 Nongseo-Dong, Giheung-Gu,  
Yongin-City, Gyeonggi-Do, Korea 446-711

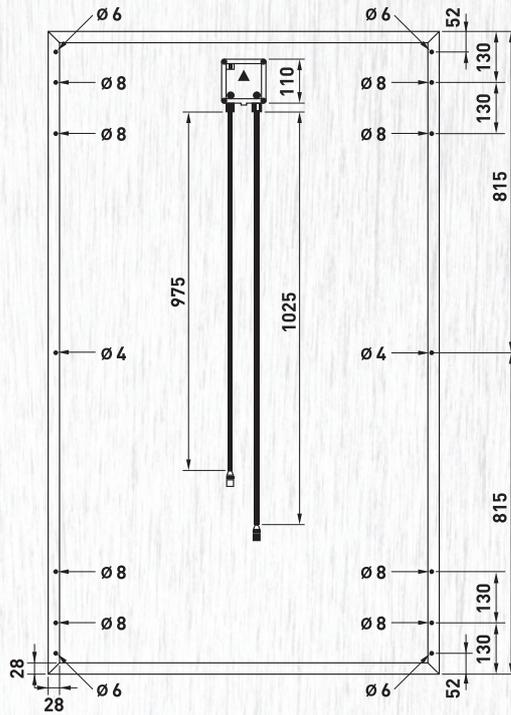
### Graph 241Wp



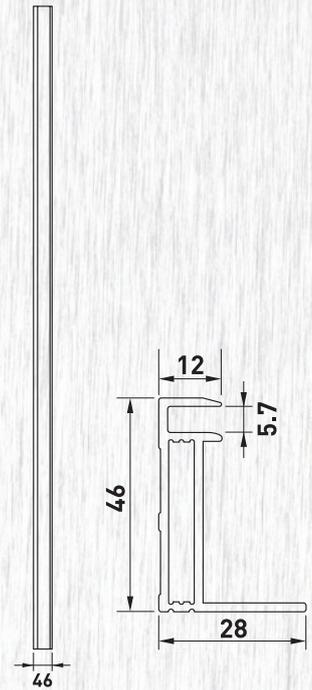
### Front



### Rear



### Side



#### Physical characteristics (TUV)

Cells per module	60
Cell type	Mono-crystalline silicon
Module dimensions	1630x982x47mm
Module weight	18.6kg (41 lbs)
Junction box	IP65
Frame	Anodized Aluminum
Front Glass	3.2mm(0.13inches) Tempered glass
Output Cable	((-)-975mm, (+)-1025mm)

#### Temperature coefficients

NOCT	46±2°C
TC Isc	0.07 %/K
TC Voc	-0.35 %/K
TC Pmax	-0.48 %/K

(NOCT : Nominal Operating Cell Temperature)

#### Packing Configuration

Container	40'HC
Piece per pallet	20
Pallets per container	28

**SAMSUNG ELECTRONICS CO., LTD.**  
 San# 24 Nongseo-Dong, Giheung-Gu,  
 Yongin-City, Gyeonggi-Do, Korea 446-711

### Graph 241Wp

