

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.

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		LPC241SM-08	LPC244SM-08	LPC247SM-08
Performance at Standard Test Condition	ons (STC) : Irradiance 1000 \	N/m ² , AM 1.5, and cell t	emperature 25°C	
Maximum power	P _{max} (Wp)	241	244	247
Open circuit voltage	Voc (V)	37.4	37.5	37.6
Short circuit current	Isc (A)	8.54	8.58	8.62
Maximum power voltage	V _{mp} (V)	30.1	30.3	30.4
Maximum power current	Imp (A)	8.01	8.07	8.14
Module efficiency		15.06%	15.24%	15.43%
Performance at Nominal Operating Co	ell Temperature (NOCT): Irra	ndiance 800 W/m², ambi	ent temperature 20°C, w	rind speed 1m/s
Maximum power	P _{max} (Wp)	194	196	198
Open circuit voltage	Voc (V)	37.4	37.3	37.4
Short circuit current	Isc (A)	6.84	6.88	6.89
Maximum power voltage	V _{mp} (V)	30.3	30.4	30.5
Maximum power current	Imp (A)	6.43	6.48	6.49

[★] The rated power may only vary by 0 Wp / +2.99 Wp.



System integration parameters	
1,000 VDC	
600 VDC	
15 A	
20 A	

Safety Ratings & Warranties	
Fire Safety Classification	Class C
Certifications	UL 1703, CEC Listed
Warranty	5 years limited product warranty
Performance guarantee	10 years limited warranty of 90% power output
renormance guarantee	25 years limited warranty of 80% power output

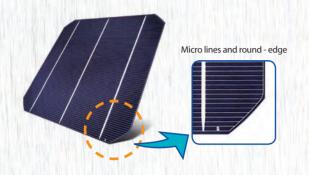
Qualification Test	
Temp cycling range	-40°C to 85°C for 200 cycles
Damp heat test	85°C and 85% relative humidity for 1000 hr
Front load test (Snow)	5400 Pa
Rear static load test(Wind)	2400 Pa
Hailstone impact test	25 mm hail at 23 m/s from 1 m distance

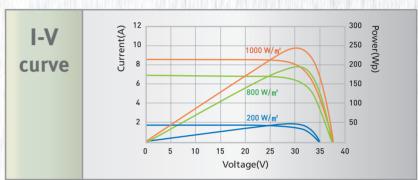
Temperature coefficients	
NOCT	46 ± 2°C
TC Isc	0.07%/K
TC Voc	-0.35%/K
TC Pmax	-0.48%/K

(NOCT: Nominal Operating Cell Temperature)

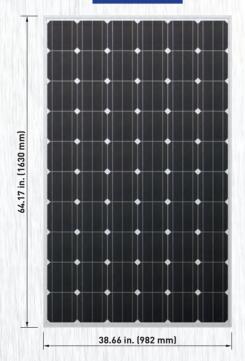
Packing Configuration		
Container	40'HC	
Piece per pallet	20	
Pallets per container	26	

Physical cha	aracteristics	
Cells per mo	odule	60
Cell type		Mono-crystalline
Dimensions		64.17x 38.66x1.81 in. (1630x982x46mm)
Front Glass		0.13 in.(3.2mm) Tempered glass
Weight		41 lbs (18.6kg)
Junction box	Connector Type	Bizlink S418 (MC4 connectable)
	IP Grade	IP 65
	Output Cable	(+) 47.24 in. (-) 31.50 in.

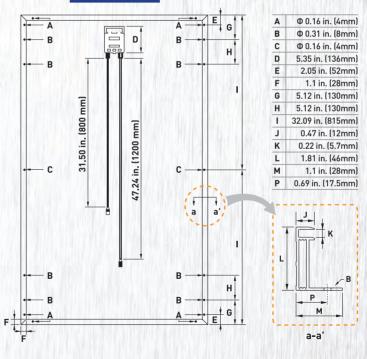




FRONT



REAR



* All data subject to change without prior notice.

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