

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.

	The state of the s	
Construction of the con-	LPC244SM	LPC247SM
ditions (STC) : Irradiance 100	0 W/m ² , AM 1.5, and cell tem	perature 25 °C
Pmax (Wp)	244	247
Vmp (V)	30.7	30.8
Imp (A)	7.97	8.04
Voc (V)	37.6	37.6
Isc (A)	8.40	8.47
	15.24%	15.43%
g Cell Temperature (NOCT) : I	rradiance 800 W/m², AM 1.5	
Pmax (Wp)	197	200
Vmp (V)	30.7	31.1
Imp (A)	6.38	6.44
Voc (V)	37.5	37.6
Isc (A)	6.73	6.79
	Pmax (Wp) Vmp (V) Imp (A) Voc (V) Isc (A)	Pmax (Wp) 244 Vmp (V) 30.7 Imp (A) 15.24%

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



	System integration parame	eters
N	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

Safety Ratings & Warranties		
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	

Qualification Test	ualification 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		
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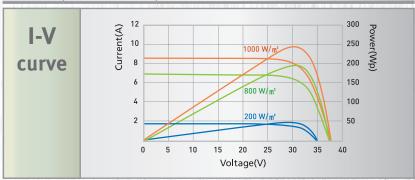
Temperature coefficients		
NOCT	45 ± 2 °C	
TC Isc	-0.025%/K	
TC Voc	-0.341%/K	
TC Pmax	-0.519%/K	

(NOCT: Nominal Operating Cell Temperature)

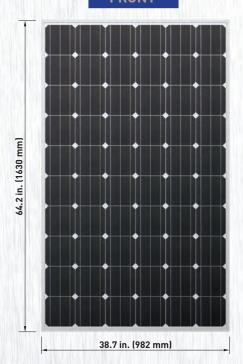
Packing Configuration		
Container	40'HC	
Piece per pallet	20	
Pallets per container	26	

Physical characteristics (UL)				
Туре		01(Screw)	02(Corner-key)	
Cells per module		60		
Cell type		Mono-crystalline silicon		
Module dimensions		1630 x 982 x 47 mm	1630 x 982 x 46 mm	
		64.2 x 38.7 x 1.85 inches	64.2 x 38.7 x 1.81 inches	
Front Glass		3.2 mm (0.13 inches) Tempered glass		
Module	e weight	20.0 kg (44.09 lb)	18.6 kg (41.01 lb)	
Frame Type		Screw	Corner-key	
	Connector Type	Bizlink S418-xyz series (MC4 compatible)		
Junction	IP Grade	IP65		
box	Output Cable	(+) 1200 mm, (-) 800 mm		
	Output Cable	(+) 47.2 inches, (-) 31.5 inches		

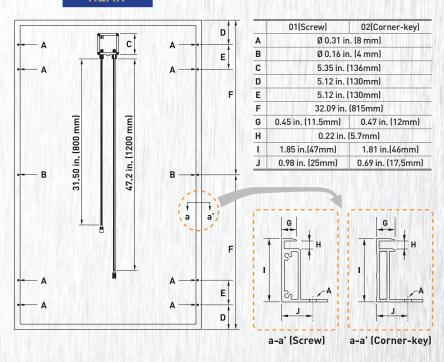




FRONT



REAR



* All data subject to change without prior notice.

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