SM-72 BKHC ALL BLACK HALF CELL SERIES 144 CELLS **390-410**w



Monocrystalline solar cells



Linear power output warranty



KEY FEATURES



100% double EL test enabling remarkable reduction of hidden crack rate of modules



Positive power tolerance $(3 \sim +10W)$ guaranteed



Lower risk of hot spot effects

Significantly lower LCOE Ë and BoS cost savings

Low Light Features Higher performance under low light environment.



5BB/9BB Cell More uniform current collection capability, reducing the current heat loss of the internal cells.

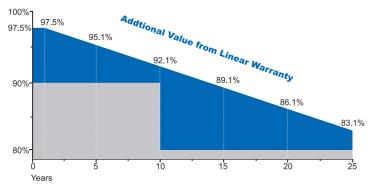
PID Protection (*

Ensure the attenuation probability caused by PID phenomenon is minimized

MANAGEMENT SYSTEM

ISO 9001: Quality management system ISO 14001: Standard for environmental management system OHSAS 18001: International standard for occupational health and safety assessment system

WARRANTY



ISO

INSURANCE

PKC

PRODUCT CERTIFICATES





Electric Characteristics										
Model of modules	SM-390-72BKHC		SM-395-72BKHC		SM-400-72BKHC		SM-405-72BKHC		SM-410-72BKHC	
	STC	NOCT								
$Maximum \ power-P_{_{mp}} \ \ (W)$	390W	294W	395W	298W	400W	302W	405W	306W	410W	310W
Open-circuit voltage-V $_{\rm oc}~(\rm V)$	49.3V	48.0V	49.5V	48.2V	49.8V	48.5V	50.1V	48.7V	50.4V	48.9V
Short-circuit current- $\mathbf{I}_{_{sc}}~(\mathbf{A})$	10.12A	8.02A	10.23A	8.09A	10.36A	8.16A	10.48A	8.22A	10.60A	8.26A
Maximum power voltage $-V_{_{mp}}$ (V)	41.1V	39.1V	41.4V	39.3V	41.7V	39.6V	42.0V	39.8V	42.3V	40.0V
Maximum power current $-\mathbf{I}_{_{m_{P}}}\left(\mathbf{A}\right)$	9.49A	7.54A	9.55A	7.60A	9.60A	7.66A	9.65A	7.72A	9.69A	7.76A
Module efficiency– $\eta_{_m}~(\%)$	19.38%		19.63%		19.88%		20.13%		20.38%	

STC: Irradiance 1000 W/m², 25°C, AM1.5

Temperature Characteristics

Temperature coefficient at maximum power	-0.36%/ [°] C
Temperature coefficient of Voc	-0.28%/ [′] C
Temperature coefficient of lsc	+0.048%/ °C
Current operating temperature	-40~+85 °C
Rated operating temperature of cells	45±2 C

Structural Characteristics 2008x1002x40mm 22.5kg No.of Half-cells 144(6x24) Mono crystalline 158.75x79.38mm 3.2mm AR coating tempered glass Anodized aluminum alloy, black color IP68, three diodes 4.0 mm², wire length: 1200mm or Customized MC4 compatible Mechanical load Snow load 5400Pa/Wind load 2400Pa

Working Characteristics

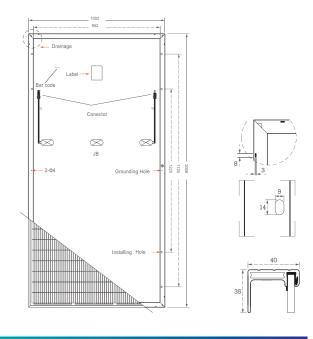
Power tolerance(W)	(3,+10)
Maximum system voltage(V)	1000V/1500V
Maximum rated fuse current (A)	20

Packaging Configuration Container 20GP 40HQ 27 Quantity per pallet 26 22 Pallets per container 10 Quantity per container 260 660

SOLARMAN Seize the **sun**.

NOCT: Irradiance 800 W/M2, 20°C, wind velocity 1m/s

Engineering Drawings



IV Curves

