



MBB HC
MONOFACIAL
PHOTOVOLTAIC MODULE
540W-550W

ZES - 540/550 W - HC182 MODEL

Highly efficient ZES solar modules; designed with 182 mm multi busbar and half-cut cell technology; offer superior performance with ZES Solar guarantee.



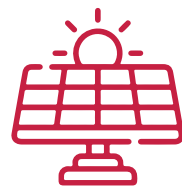
0,+5W

POSITIVE
POWER TOLERANCE



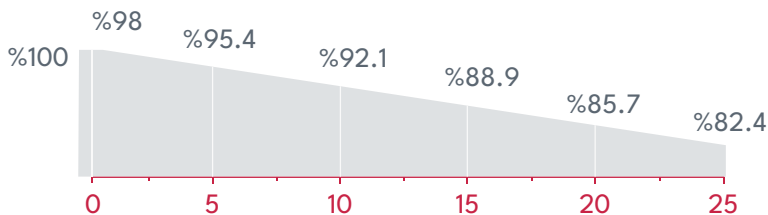
550W_p

MAXIMUM
MODULE POWER



21,17%

MAXIMUM
MODULE EFFICIENCY



LINEAR DEGRADATION GUARANTEE



PRODUCT
GUARANTEE



LINEAR
PERFORMANCE
GUARANTEE



For detailed information and product requests:
0850 339 99 37/info@zessolar.com

ZES - 540/550 W - HC182 MODEL

MECHANICAL CHARACTERISTICS

Dimensions	2295±2 x 1132±2 x 42±1 mm
Weight	29 kA
Cell Type	PERC Monofacial 182 x 91mm (144 pcs)
Front Glass	3.2mm AR Covering Tempered Glass
Frame	Anodized Aluminium Alloy
Conjunction Box	IP68, 3 diode – MC4 Compatible/MC4 Original
Output Cables*	4.0 mm ² , 1300mm
Maximum Static Power	Front (Snow) 5400Pa / Back (Wind) 2400Pa

*Output cables length must be specify at order.

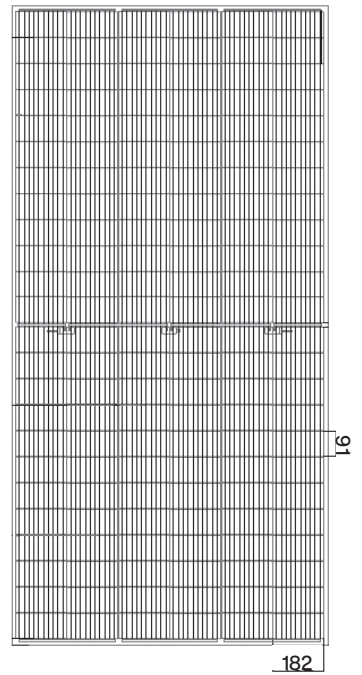
**Connector type must be specify at order

ELECTRICAL CHARACTERISTICS

	STC Nominal Power (P _{mp})		540 W		545 W		550 W	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
STC Maximum Power (P _{mp}) (W)	540	410.4	545	414.2	550	419		
Open Circuit Voltage (V _{oc}) (V)	49.25	46.13	49.33	46.21	49.82	46.67		
Short Circuit Current (I _{sc}) (A)	13.58	10.87	13.70	10.88	13.71	10.97		
Maximum Power Voltage (V _{mp}) (V)	42.06	39.40	42.13	39.46	42.55	39.86		
Maximum Power Current (I _{mp}) (A)	12.92	10.48	12.96	10.51	12.97	10.52		
STC Module Efficiency (η _m) (%)	20.79		20.98		21.17			
Power Tolerance (W)	(0,+5)							
Maximum System Voltage	1500 VDC							
Maximum Circuit Breaker	20A							

STC: Radiation 1000W/m², Cell Temperature 25°C, AM=1.5

NOCT: Radiation 800W/m², Ambient Temperature 20°C, AM=1.5, Wind speed 1m/s



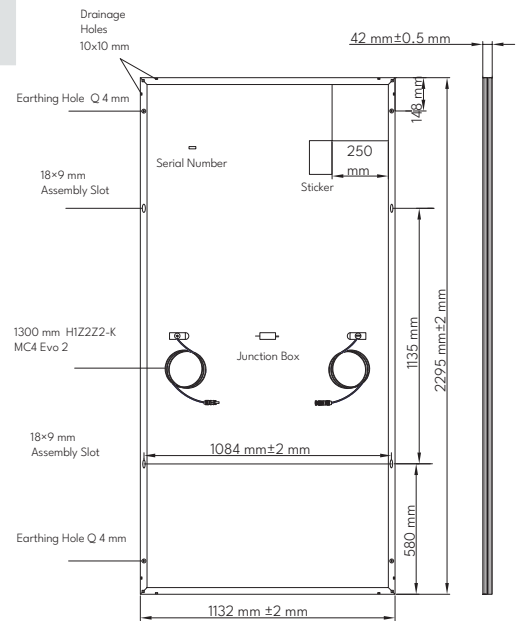
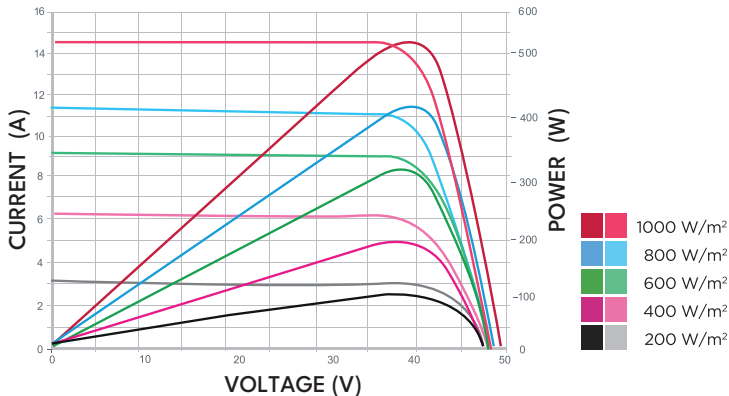
PACKAGING

Pallet Dimensions (Length, Width, Height)	2326±2 x 1145±2 x 1170 ±1 mm	
Pallet Weight	830kg	
Container	20'GP	40'HC
Number of Modules in One Pallet	27	27
Number of Pallet in One Container	5	22
Number of Modules in One Container	135	594

TEMPERATURE CHARACTERISTICS

P _{max} Temperature Coefficient	-0.311 %/°C
V _{oc} Temperature Coefficient	-0.040 %/°C
I _{sc} Temperature Coefficient	+0.04 %/°C
Operating Temperature	-40~+85°C
Nominal Operating Cell Temperature (NOCT)	45±2°C

I-V CURVE



Current-Voltage

