

Mono-crystalline Solar Module (54Cells)-QingTian All Black

CEC6-54MHV

400~415W

POWER OUTPUT RANGE

20.5%~21.3%

MODULE EFFICIENCY

PRODUCT CHARACTERISTICS

- ◆ Light weight, easy to install, high cost performance, high efficiency
- ◆ Module certified to withstand extreme wind (2400 Pascal) and snow loads (5400 Pascal)
- ◆ Guaranteed output: 0~+5W
- ◆ Excellent performance in weak light condition, such as cloudy, morning and sunset
- ◆ Independently certified by international certification authorities, including IEC61215, IEC61730, CE



LINEAR WARRANTY AND CERTIFICATION



1st year Power output not less than 98%



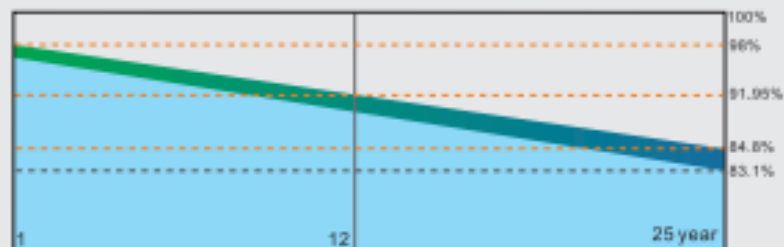
Warranty for product materials and processes within 12 years



Power output not less than 91.95% within 12 years



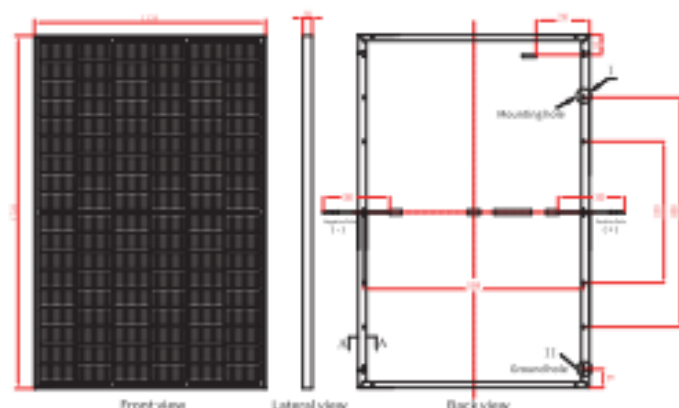
Power output not less than 84.8% within 25 years



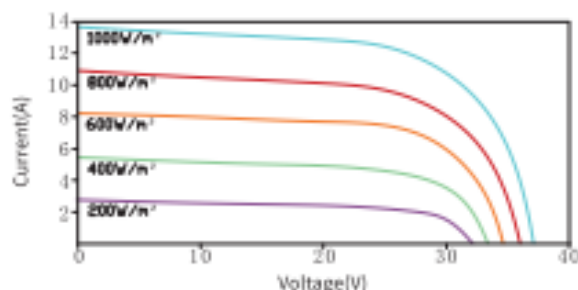
■ CECEP Solar linear power warranty

■ Normal module linear power warranty

Assembly Drawing



I-V Curve (400W)



Limit Parameters

Operating temperature	-40°C to +85°C
Maximum fuse current rating	25A

Mechanical Characteristics

Cell type	182×91mm monocrystalline silicon solar cells, 108 cells (6×18)
Glass	3.2 mm thick low-iron tempered glass with high light transmittance
Junction Box	IP Grade: IP68

Temperature Rating

Nominal Module Operating Temperature (NMOT)	42°C ± 2°C
Maximum Power (Pmax) Temperature Coefficient (δ (%/°C))	-0.34
Open-circuit voltage (Voc) Temperature coefficient (β (%/°C))	-0.26
Short-circuit current (Isc) Temperature coefficient (α (%/°C))	0.05

Physical Parameter

Dimension	1722*1134*30mm
Mounting hole size	1150*1088, 1400*1088mm
Cable Length	300mm; Customizable
Weight	21.5Kg

Mode of Packing

40'HQ Container	Pieces per pallet	36 pcs/pallet
	pallets per container	26 pallets/40'HQ
	Pieces per container	936pcs/40'HQ

Parameters of Module

Electrical parameters (Standard test condition)	CEC6-54-400MH CEC6-54-400MHV	CEC6-54-405MH CEC6-54-405MHV	CEC6-54-410MH CEC6-54-410MHV	CEC6-54-415MH CEC6-54-415MHV
Maximum power (Pmax)(Wp)	400	405	410	415
Maximum operating voltage (Vmp)(V)	31.09	31.26	31.42	31.61
Maximum operating current (Imp)(A)	12.86	12.96	13.05	13.13
Open-circuit voltage (Voc)(V)	37.00	37.20	37.40	37.60
Short-circuit current (Isc)(A)	13.65	13.76	13.84	13.94
Maximum system voltage (Vdc)(V)	1000/1500	1000/1500	1000/1500	1000/1500
Module efficiency(%)	20.5%	20.7%	21.00%	21.30%
Power tolerance(W)	0/+5W	0/+5W	0/+5W	0/+5W

Measured values under STC (temperature 25°C, air mass A.M.1.5, irradiance 1000W/m²)

Test under NMOT conditions

Max Power(Wp)	298.9	302.7	306.4	310.1
Max-Power Voltage (Vmp)(V)	28.98	29.13	29.29	29.45
Max-Power Current (Imp)(A)	10.32	10.39	10.46	10.53
Open-Circuit Voltage (Voc)(V)	34.97	35.15	35.34	35.53
Short-Circuit Current (Isc)(A)	11.07	11.17	11.26	11.35



Make Power Generation More Green

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