

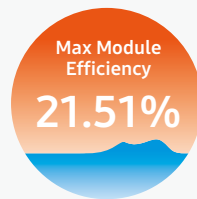


ZECO-54X10

0~+5W

390~420W

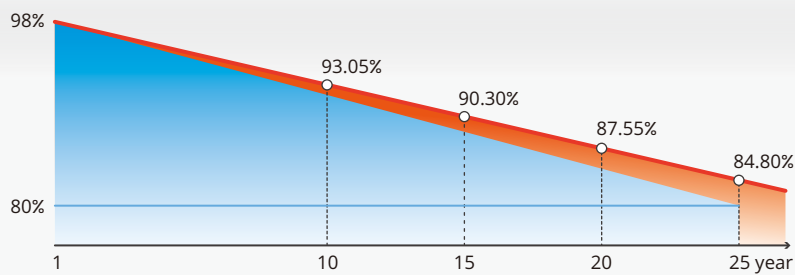
Half-Cell High Efficiency PV Module



Quality Guarantee

12-Year material & technology warranty

25-Year linear power output warranty



— ZECONEX solar linear power output guarantee

— Standard linear power output guarantee



More Power Generation

Larger size of light receiving area and higher module conversion efficiency



10 Busbar Technology

Higher power collection density improves power generation



Stable Generation Performance

Guaranteed 0~+5W positive tolerance and slower power attenuation:
first year ≤2%, 0.55% per year from 2-25



Higher Power Gains and Lower Losses

Excellent low irradiance performance and low shadow loss



Process Optimized and Upgraded

Lower risk of hot spot and stronger anti-PID ability



Strong Environmental Adaptability and Great Durability

Certified by Dust-Sand, Salt-Mist, Ammonia etc. weather resistance tests and enhanced mechanical load: wind load (2400 Pascal) and snow load (5400 Pascal)

Comprehensive Products and System Certificates



IEC 61215 / IEC 61730 / CE / FIDE / INMETRO

ISO 45001-

2018/International standards for occupational health & safety

ISO 14001-

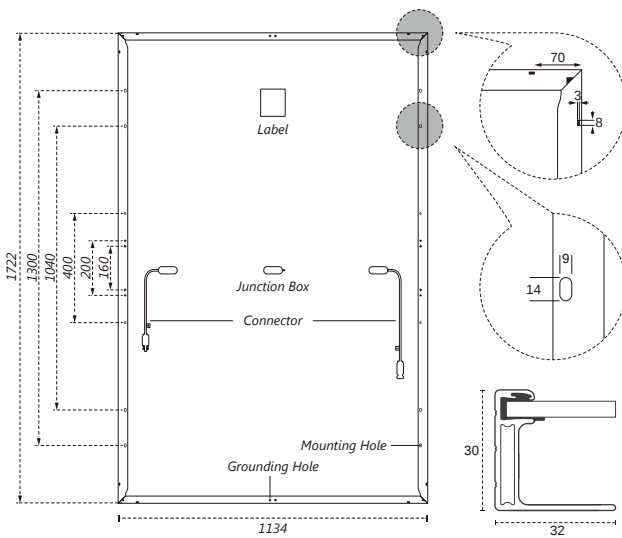
2015/Standards for environmental management system

ISO 9001-

2015/Quality management system

ZECO-54X10 390~420W

Design



Mechanical Specification

Cells Type
Mono 182×91mm

Weight
22kg

Output Cable
(Including connector)
No. of Cells
Glass
Junction box
Connector

Dimension (L×W×T)
1722×1134×30mm

Packing
36pcs/pallet, 936pcs/40HQ

4.0mm², 300/400mm in length,
length can be customized
108 (6×18)
3.2mm High Transmission, Antireflection Coating
IP68, 3 Bypass Diodes
MC4 Compatible

Operating Parameters

Maximum system voltage	1500V DC
Operating Temperature	-40 ~ +85°C
Maximum series fuse rating	25A
Snow load, frontside	5400Pa
Wind load, backside	2400Pa
Nominal operating cell temperature	45°C±2°C
Application level	Class A

STC-Electrical Characteristics

Module Type	ZECO-54X10						
Maximum Power (Pmax/W)	390	395	400	405	410	415	420
Open-circuit Voltage (Voc/V)	36.4	34.6	36.8	37.0	37.2	37.4	37.6
Maximum Power Voltage (Vmp/V)	30.9	31.1	31.3	31.5	31.7	31.9	32.1
Short-circuit Current (Isc/A)	13.40	13.42	13.48	13.54	13.60	13.66	13.72
Maximum Power Current (Imp/A)	12.60	12.69	12.77	12.85	12.92	13.00	13.07
Module Efficiency (%)	19.97	20.23	20.48	20.74	21.00	21.25	21.51
Temperature Coefficient of Isc	0.05%/°C						
Temperature Coefficient of Voc	-0.31%/°C						
Temperature Coefficient of Pmax	-0.35%/°C						

Standard Test Environment : Irradiance 1000W/m², Cell temperature 25°C, Spectrum AM1.5

NOCT-Electrical Characteristics

Maximum Power (Pmax/W)	290	294	298	301	305	309	312
Open-circuit Voltage (Voc/V)	34.1	34.3	34.5	34.7	34.9	35.1	35.3
Maximum Power Voltage (Vmp/V)	29.0	29.2	29.4	29.6	29.8	29.9	30.1
Short-circuit Current (Isc/A)	10.79	10.84	10.89	10.94	10.99	11.04	11.09
Maximum Power Current (Imp/A)	10.01	10.07	10.13	10.19	10.25	10.31	10.38

Standard Test Environment : Irradiance 800W/m², Ambient temperature 20°C, Spectrum AM1.5, Wind speed 1m/s

I-V Curve (ZECO-54X10-420W)

