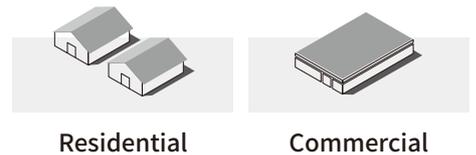




YTM400-420P-54/M

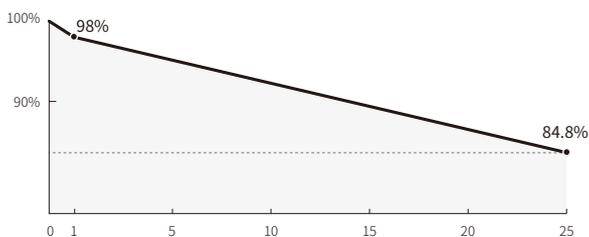
Adopting PERC technology on M10 wafer, perfectly matches the mainstream system design and mature logistics scheme.

Advanced module technologies are adopted like multi-busbar, half cell, non-destructive cutting, and intelligent soldering.



Warranty

Product warranty 12 Years 1st year degradation $\leq 2\%$
Linear power warranty 25 Years Annual degradation $\leq 0.55\%$

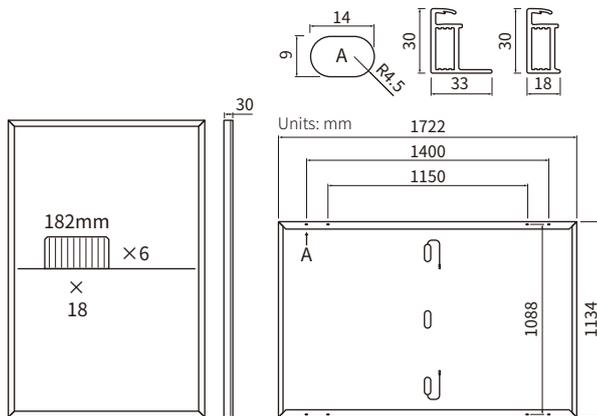


Certificates

IEC 61215, IEC 61730
ISO 9001:2015 Quality management systems
ISO 14001:2015 Environmental management systems
ISO 45001:2018 Occupational health and safety management systems



YTM400-420P-54/M



Mechanical Parameters

Cell type	Mono PERC
No. of cells	108 (6*18)
Junction box	IP68, 3 diodes
Cable	4mm ² ; 300mm(+)/400mm(-) or customized
Glass	Single glass, 3.2mm
Frame	Anodized aluminum alloy frame
Weight	21.4kg±3%
Dimensions	1722mm x 1134mm x 30mm
Packaging	36 pcs/pallet, 936 pcs/40HQ container

Electrical Parameters

STC: AM1.5 1000W/m² 25°C NMOT: AM1.5 800W/m² 20°C 1m/s

Module type	YTM400P-54/M		YTM405P-54/M		YTM410P-54/M		YTM415P-54/M		YTM420P-54/M	
	STC	NMOT								
Rated maximum power P _{max} (W)	400	298	405	302	410	306	415	310	420	314
Open circuit voltage Voc (V)	37.02	34.91	37.18	34.99	37.26	35.08	37.40	35.19	37.52	35.27
Short circuit current I _{sc} (A)	13.81	11.13	13.89	11.22	13.97	11.32	14.04	11.42	14.12	11.52
Maximum power voltage V _{mp} (V)	30.96	28.49	31.16	28.65	31.42	28.80	31.60	28.99	31.75	29.18
Maximum power current I _{mp} (A)	12.92	10.46	13.00	10.54	13.05	10.63	13.14	10.69	13.23	10.76
Module efficiency (%)	20.5		20.7		21.0		21.3		21.5	

Temperature Coefficients

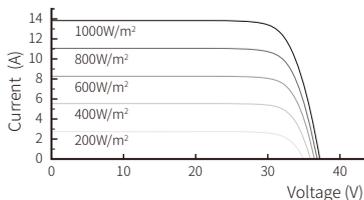
Temperature coefficient α _{Isc}	+0.045%/°C
Temperature coefficient β _{Voc}	-0.275%/°C
Temperature coefficient γ _{Pmax}	-0.350%/°C

Operating Conditions

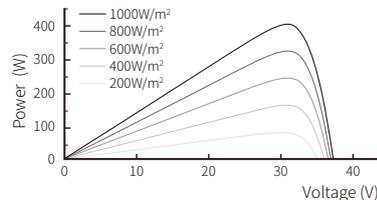
Operating temperature	-40°C~+70°C	Nominal operating cell temperature	45±2°C
P _{max} , Voc, I _{sc} tolerance	±3%	Front side Max. static test loading	5400 Pa
Power selection	0~+5W	Rear side Max. static test loading	2400 Pa
Maximum system voltage	1500V DC		
Maximum series fuse rating	25A		

Graphs (YTM405P-54/M)

Current - Voltage Curve



Power - Voltage Curve



Current - Voltage Curve

