

REDSOLAR

P series

M10-PERC Ultralight

CETC-400-420M(L)/108



Product
warranty



Linear power
warranty



Better Performance



Ultra-light weight



High quality



High Returns



400-420W
Output power

21.50%
Maximum efficiency

0~+5W
Power tolerance

Electrical Parameter(STC)

Model	400M	405M	410M	415M	420M
Maximum power (W)	400	405	410	415	420
Working point voltage (V)	30.50	30.72	30.93	31.16	31.28
Working point current (A)	13.11	13.18	13.25	13.32	13.43
Open circuit voltage (V)	36.84	36.93	37.02	37.17	37.29
Short circuit current (A)	13.77	13.84	13.91	13.98	14.06
PV module efficiency	20.50%	20.76%	21.01%	21.27%	21.52%
Standard test conditions	Am1.5, Irradiance 1000w/m ² , Cell Temperature 25°C				

Electrical Parameter(NMOT)

Model	400M	405M	410M	415M	420M
Maximum power (W)	292	296	300	304	307
Working point voltage (V)	27.60	27.80	28.00	28.20	28.32
Working point current (A)	10.58	10.64	10.71	10.78	10.84
Open circuit voltage (V)	34.80	34.90	35.00	35.10	35.20
Short circuit current (A)	11.13	11.18	11.23	11.28	11.32
NMOT conditions	The irradiance is 890w/m ² , the ambient temperature is 20 degrees, and the wind speed is 1m/s				

Mechanical Parameters

Module size	1722*1133*30mm
Number of solar cells	108Pcs (2*6*9)
Weight	11.45kg±0.25kg
Junction Box	IP68, 3 diodes
Cables	4mm ² , 300mm(Customizable)
Front glass	Ultra white AR coated toughened glass
Static load on the front	5400Pa
Static load on the back	2400Pa

Packaging&Transport

40'HQ container transport	36Pcs/box × 26box = 936Pcs
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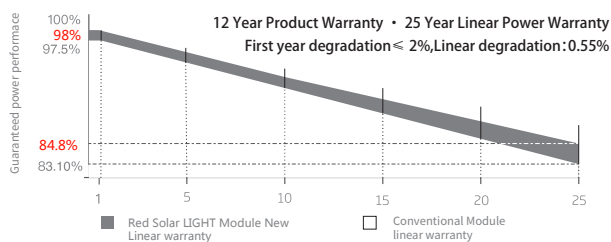
Temperature Parameter

NMOT	45±2°C
Temperature coefficient of maximum power(Pmax)	-0.35%/°C
Temperature coefficient of open circuit voltage(Voc)	-0.28%/°C
Temperature coefficient of short circuit current(Isc)	+0.048%/°C

Maximum Ratings

Working temperature	-40~+85°C
Maximum system voltage	1500VDC
Maximum fuse rated current	25A

Excellent Power Guarantee



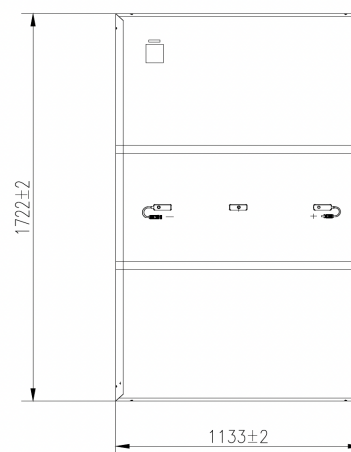
Model of PV Module

CETC-xxxM(L)/108

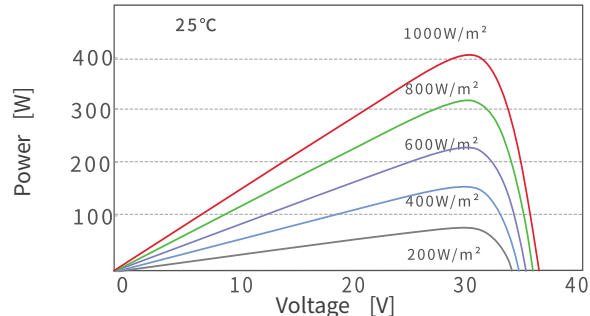
Power Range

400-420W

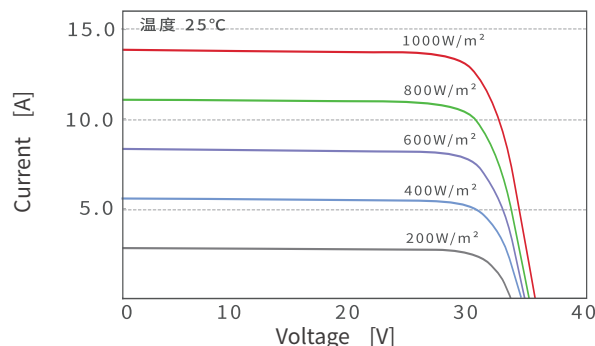
PV module dimensions (mm)



P-V Curves of PV Module



I-V Curves of PV Module



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