

# REDSOLAR

## N series G12R TOPCon Bifacial

CETC-610-630TR(GDF)/132



Product  
warranty



Linear power  
warranty



Rectangular cell design



Better Performance



High Returns



High quality



# 610-630W

Output power

# 23.3%

Maximum efficiency

# 0~+5W

Power tolerance

## Electrical Characteristics(STC)

| Model                     | 610TR                                                                               | 615TR | 620TR | 625TR | 630TR |
|---------------------------|-------------------------------------------------------------------------------------|-------|-------|-------|-------|
| Maximum power (W)         | 610                                                                                 | 615   | 620   | 625   | 630   |
| Maximum power voltage (V) | 39.71                                                                               | 39.88 | 40.05 | 40.22 | 40.38 |
| Maximum power current (A) | 15.36                                                                               | 15.42 | 15.48 | 15.54 | 15.60 |
| Open circuit voltage (V)  | 47.67                                                                               | 47.86 | 48.05 | 48.24 | 48.43 |
| Short circuit current (A) | 16.20                                                                               | 16.26 | 16.32 | 16.38 | 16.44 |
| PV module efficiency      | 22.6%                                                                               | 22.8% | 23.0% | 23.1% | 23.3% |
| Standard test conditions  | Atmospheric quality AM1.5, Irradiance 1000w/m <sup>2</sup><br>Cell Temperature 25°C |       |       |       |       |

## Electrical Characteristics(BNPI)

| Model                     | 610TR                                                                                                                    | 615TR | 620TR | 625TR | 630TR |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|
| Maximum power (W)         | 675                                                                                                                      | 680   | 685   | 690   | 695   |
| Maximum power voltage (V) | 39.75                                                                                                                    | 39.90 | 40.03 | 40.17 | 40.30 |
| Maximum power current (A) | 16.98                                                                                                                    | 17.04 | 17.11 | 17.17 | 17.24 |
| Open circuit voltage (V)  | 47.72                                                                                                                    | 47.91 | 48.09 | 48.29 | 48.48 |
| Short circuit current(A)  | 17.89                                                                                                                    | 17.96 | 18.03 | 18.10 | 18.17 |
| PV module efficiency      | 25.0%                                                                                                                    | 25.1% | 25.3% | 25.5% | 25.7% |
| Standard test conditions  | Atmospheric quality AM1.5, Irradiance: front 1000 W/m <sup>2</sup> , rear 135 W/m <sup>2</sup><br>Cell Temperature 25°C, |       |       |       |       |

## Mechanical Parameters

|                            |                                                  |
|----------------------------|--------------------------------------------------|
| Module size                | 2382*1134*30mm                                   |
| Number of solar cells      | 132Cells(2*6*11)                                 |
| Weight                     | 32.5Kg ±5%                                       |
| Junction box               | IP68, 3 diodes                                   |
| Cables                     | 4mm <sup>2</sup> , +/-300mm/-:200(Customizable)  |
| Front glass                | 2.0mm,Ultra white AR coated semi-toughened glass |
| Rear glass                 | 2.0mm, semi-toughened glass                      |
| Maximum static load(front) | 5400Pa                                           |
| Maximum static load(rear)  | 2400Pa                                           |

## Packaging Configurations

|                                                      |                                                             |
|------------------------------------------------------|-------------------------------------------------------------|
| 40'HQ container<br>transport                         | with wooden protective strip: 36Pcs/box × 16box = 576Pcs    |
|                                                      | without wooden protective strip: 36Pcs/box × 20box = 720Pcs |
| Note: Packing tray requires additional customization |                                                             |

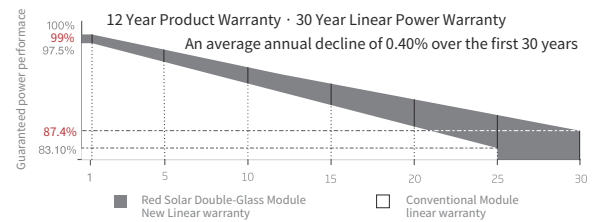
## Temperature Coefficients

|                                                       |            |
|-------------------------------------------------------|------------|
| NMOT                                                  | 42±2°C     |
| Temperature coefficient of maximum power(Pmax)        | -0.29%/°C  |
| Temperature coefficient of open circuit voltage(Voc)  | -0.25%/°C  |
| Temperature coefficient of short circuit current(Isc) | +0.045%/°C |

## Application Conditions

|                            |           |
|----------------------------|-----------|
| Working temperature        | -40~+85°C |
| Maximum system voltage     | 1500VDC   |
| Maximum fuse rated current | 30A       |

## Excellent Power Guarantee



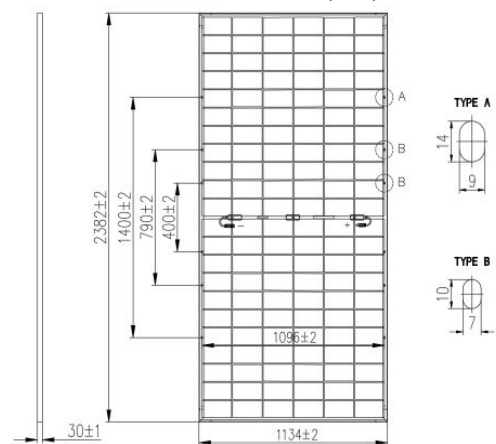
## Model of PV Module

CETC-xxxTR(GDF)/132

## Power Range

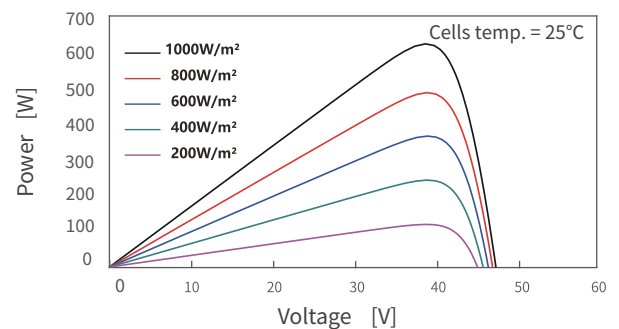
610-630W

### PV module dimensions (mm)

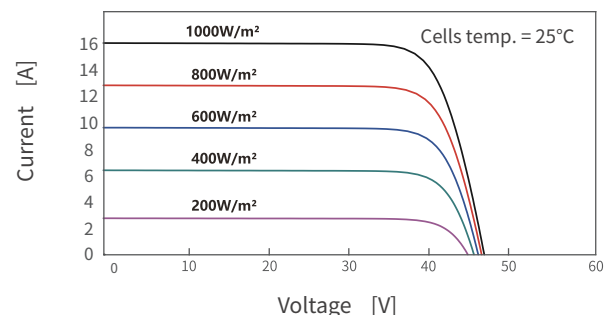


\*If there are special requirements for the installation holes, please contact our technician

## P-V Curves of PV Module



## I-V Curves of PV Module



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