

# Mono Perc Series

## Half-Cell 525-555 Wp



Higher output power



Less shading and lower resistive loss



Lower LCOE



Better mechanical loading tolerance



12 Year Warranty for Materials and Processing



25 Year Warranty for Extra Linear Power Output

### Comprehensive Certifications

- IEC 61215, IEC 61730 i.V.
- IEC TS 62941: Terrestrial photovoltaic (PV) modules Guidelines for increased confidence in PV module design qualification and type approval

**DEKRA** Certifications on the basis of:

- IC 61215-1:2016, EN 61215-1:2016, IEC 61215-1-1:2016,
- EN 61215-1-1:2016, I 61215-2:2016, EN 61215-2:2017, IEC 61730-1:2016,
- EN IC 61730-1:2018, EN IEC 61730-1:2018/AC:2018, IEC 61730-2:2016,
- EN IEC 61730-2:2018 and EN IEC 61730-2:2018/AC:2018

Certificate Number : 31- 22717

**21,30%**  
MAX MODULE  
EFFICIENCY

**0~+5W**  
POWER  
TOLERANCE

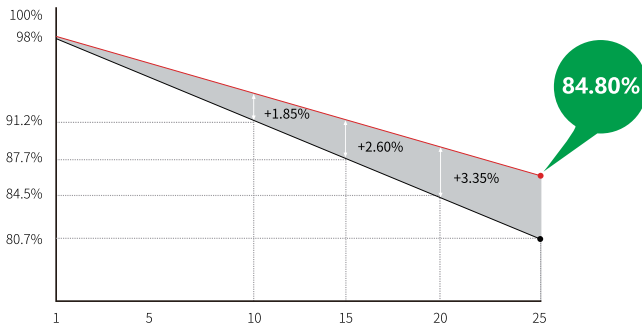
**<2%**  
FIRST YEAR  
POWER DEGRADATION

**0.55%**  
YEAR 2-25  
POWER DEGRADATION

**HALF - CELL**  
Lower operating temperature

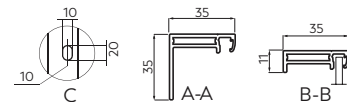
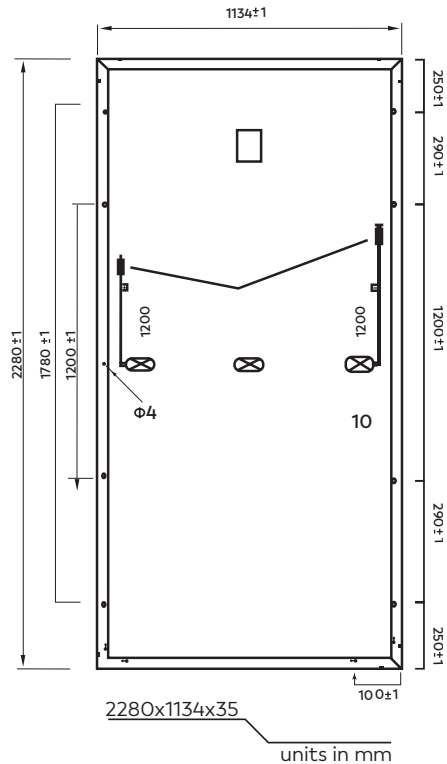
## Additional Value

### 25 Year Power Warranty



## Mechanical Parameters

|                  |                                |
|------------------|--------------------------------|
| Cell Orientation | 144 (6*12*2)                   |
| Junction Box     | Plastics IP68, 3 bypass-diodes |
| Output Cable     | 1300mm, 4mm <sup>2</sup>       |
| Glass            | 3,2mm solar glass              |
| Frame            | Anodized aluminium             |
| Weight           | 29,5kg                         |
| Dimensions (mm)  | 2280*1134*35                   |



## Electrical Characteristics

| Module Type | Testing Condition | Maximum Power | Open circuit voltage(V) | Short circuit current (A) | Voltage at Maximum power (V) | Current at Maximum Power (A) | Module Efficiency |
|-------------|-------------------|---------------|-------------------------|---------------------------|------------------------------|------------------------------|-------------------|
| 525WP       | STC               | 525           | 49,15                   | 13,65                     | 41,15                        | 12,76                        | 20,30%            |
| 530WP       | STC               | 530           | 49,30                   | 13,72                     | 41,31                        | 12,83                        | 20,50%            |
| 535WP       | STC               | 535           | 49,45                   | 13,79                     | 41,47                        | 12,90                        | 20,70%            |
| 540WP       | STC               | 540           | 49,60                   | 13,86                     | 41,64                        | 12,97                        | 20,90%            |
| 545WP       | STC               | 545           | 49,75                   | 13,93                     | 41,80                        | 13,04                        | 21,10%            |
| 550WP       | STC               | 550           | 49,90                   | 14,00                     | 41,96                        | 13,11                        | 21,30%            |
| 555WP       | STC               | 555           | 50,05                   | 14,07                     | 42,11                        | 13,18                        | 21,50%            |

## Operating Parameters

|                                    |                    |
|------------------------------------|--------------------|
| Operational Temp                   | minus 40°C to 85°C |
| Power Output Tolerance             | 0-+5Wp             |
| Maximum System Voltage             | 1500V DC           |
| Maximum Series Fuse Rating         | 15A                |
| Nominal Operating Cell Temperature | 48°C               |

## Temperature Ratings STC

|                                 |            |
|---------------------------------|------------|
| Temperature Coefficient of is   | (+)0,04%/K |
| Temperature Coefficient of Voc  | (-)0,30%/K |
| Temperature Coefficient of Pmax | (-)0,40%/K |