

# Mono Perc Series

## Half-Cell 400 - 440 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, IEC 61215-2:2016, EN 61215-2:2017, IEC 61730-1:2016,
- EN IEC 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

**22,19%**  
MAX MODULE  
EFFICIENCY

**0~+5W**  
POWER  
TOLERANCE

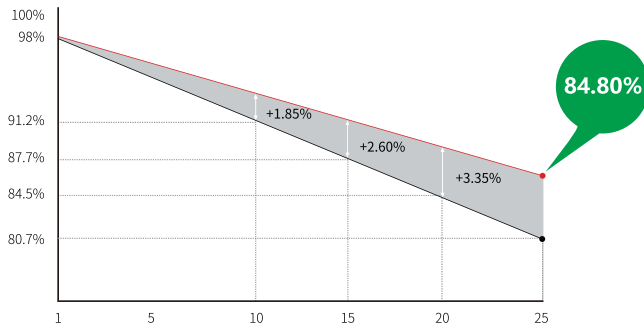
**<2%**  
FIRST YEAR  
POWER DEGRADATION

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

**HALF - CELL**  
Lower operating temperature

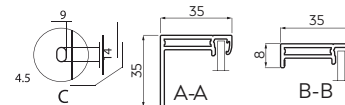
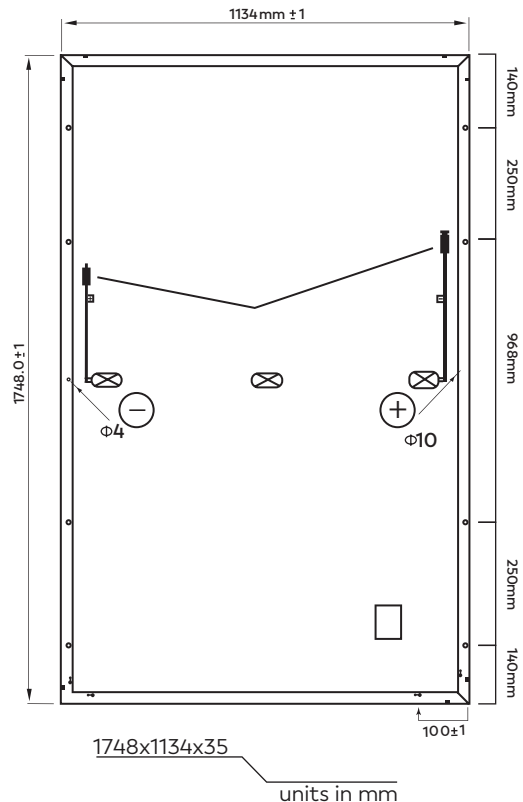
## Additional Value

### 25 Year Power Warranty



## Mechanical Parameters

Cell Orientation	144 (6*12*2)
Junction Box	Plastics IP68, 3 bypass-diodes
Output Cable	1100mm, 4mm <sup>2</sup>
Glass	3,2mm solar glass
Frame	Anodized aluminium
Weight	22,4kg
Dimensions (mm)	1748*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
400WP	STC	400	37,20	13,43	31,25	12,18	20,17%
405WP	STC	405	37,40	13,54	31,42	12,89	20,43%
410WP	STC	410	37,60	13,65	31,59	12,98	20,68%
415WP	STC	415	37,80	13,76	31,76	13,06	20,93%
420WP	STC	420	38,00	13,87	31,93	13,15	21,18%
425WP	STC	425	38,20	13,89	32,10	13,24	21,44%
430WP	STC	430	38,40	14,09	32,27	13,33	21,69%
435WP	STC	435	38,60	14,19	32,44	13,41	21,94%
440WP	STC	440	38,80	14,30	32,61	13,50	22,19%

## 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	40 -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