# Performance 7

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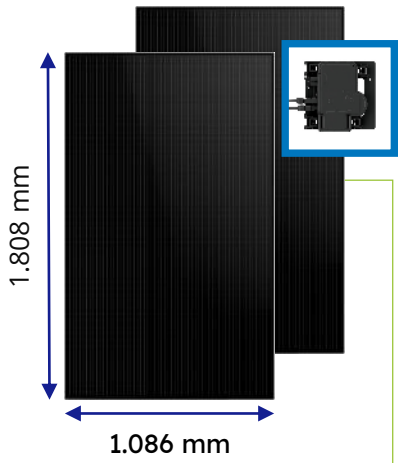
Fino a ieri

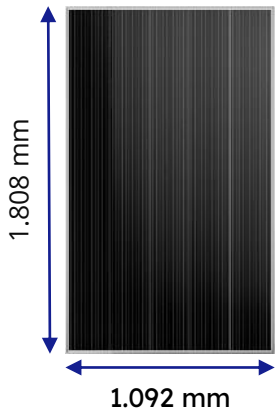



**Performance 6 BLK**

Fino a 415 W
Fino al 21,1% di efficienza

**Performance 6 BLK AC**

Fino a 410 W
Fino al 20,9% di efficienza



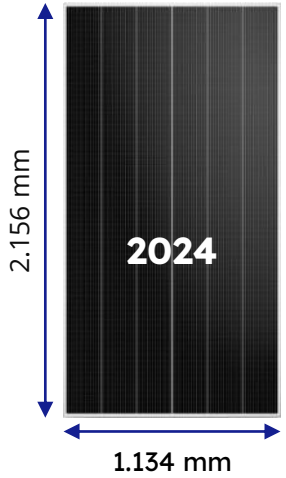

**Performance 6 COM-XS**

Fino a 420 W
Fino al 21,3% di efficienza


**Performance 6 COM-S-BF**

Fino a 510 W
Fino al 21,4% di efficienza

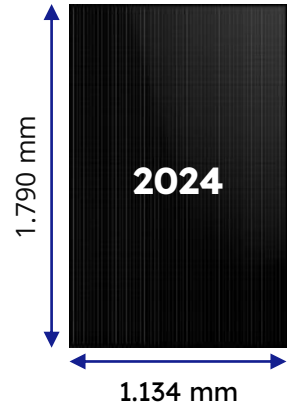
Oggi




**Performance 7 COM-S**

Fino a 550 W
Fino al 22,5% di efficienza

Presto



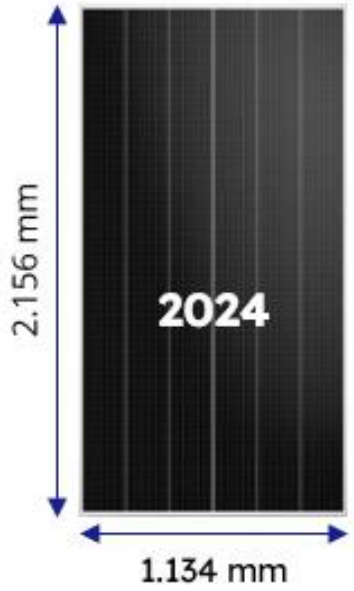

**Performance 7 NERO (CC/CA)**

Fino a 450 W
Fino al 22,2% di efficienza



Oggi




**Performance 7 COM-S**

Fino a 550 W
Fino al 22,5% di efficienza

**22.6%**
Efficienza[1]

**87.4%**
30 anni[2]

**80.0%**
BF[3]



# FEATURES TECNOLOGIA PERFORMANCE

## Guardiamo da vicino la tecnologia a bordi sovrapposti

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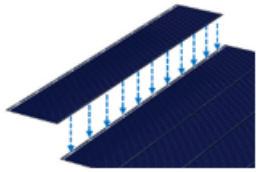
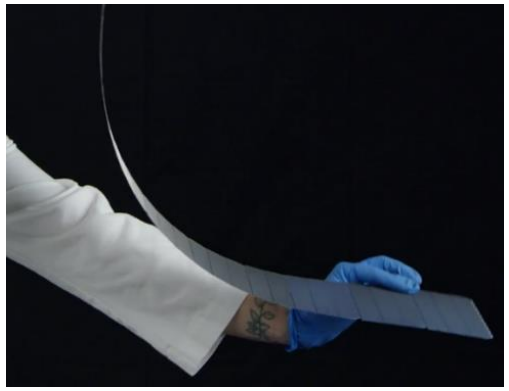
PERFORMANCE

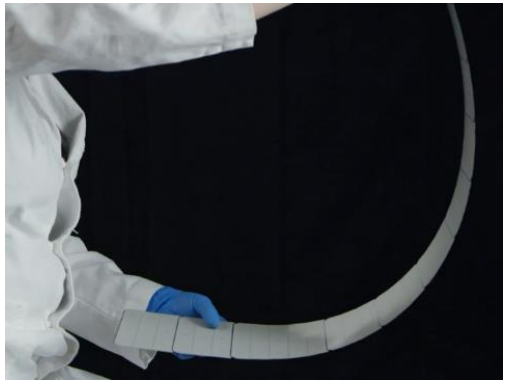
Tecnologia con celle a bordi sovrapposti

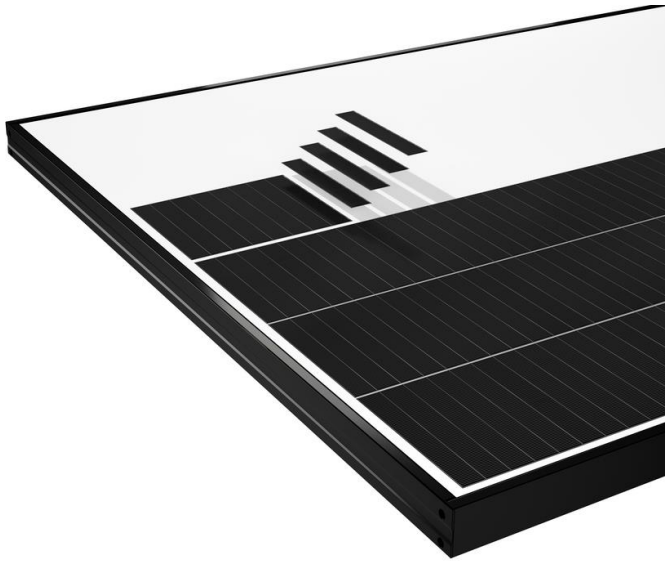


Collegamenti ridondanti e privi di saldature

Adesivo conduttivo di qualità aerospaziale



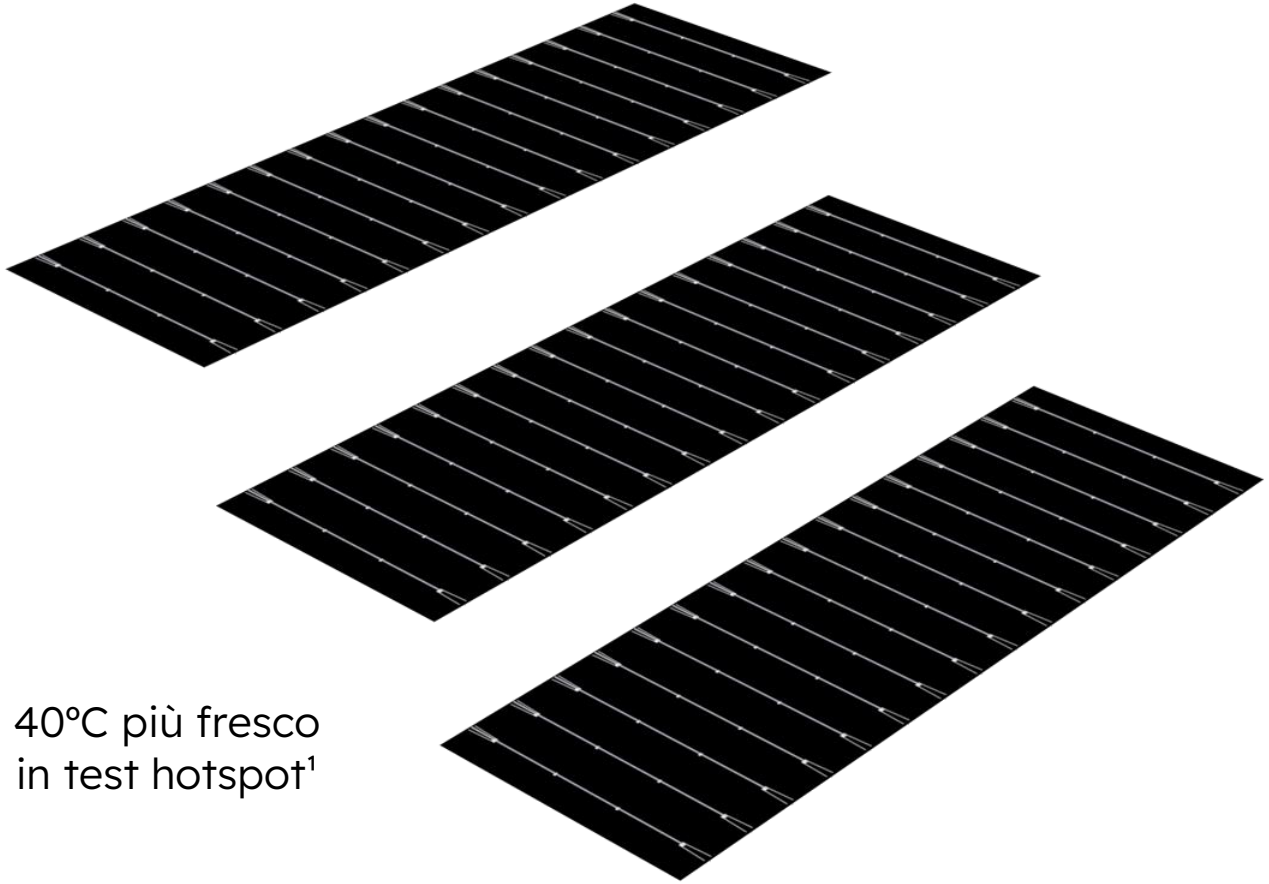




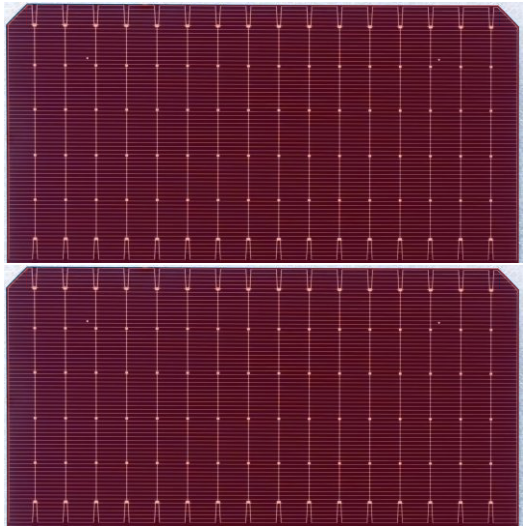


# UN TERZO DI CELLA



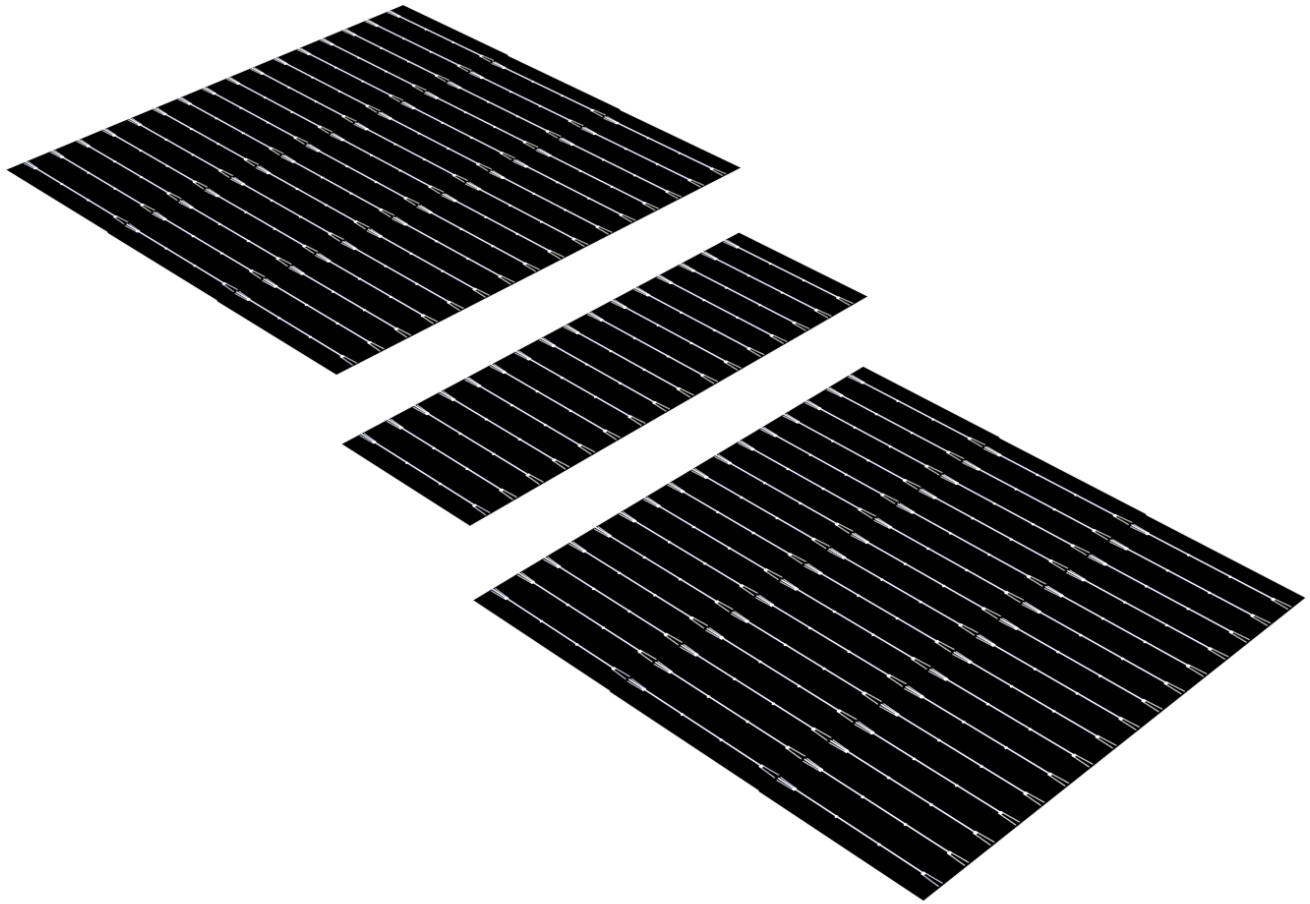
40°C più fresco
in test hotspot[1]



192°C in test hotspot[1]

[1]Based on internal R&D hotspot and shade testing vs standard half cut TOPCon panels.

# BORDI SOVRAPPOSTI



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2023
PVEL member of group kiwa
PV MODULE
RELIABILITY SCORECARD



 

# SHADE MANAGEMENT

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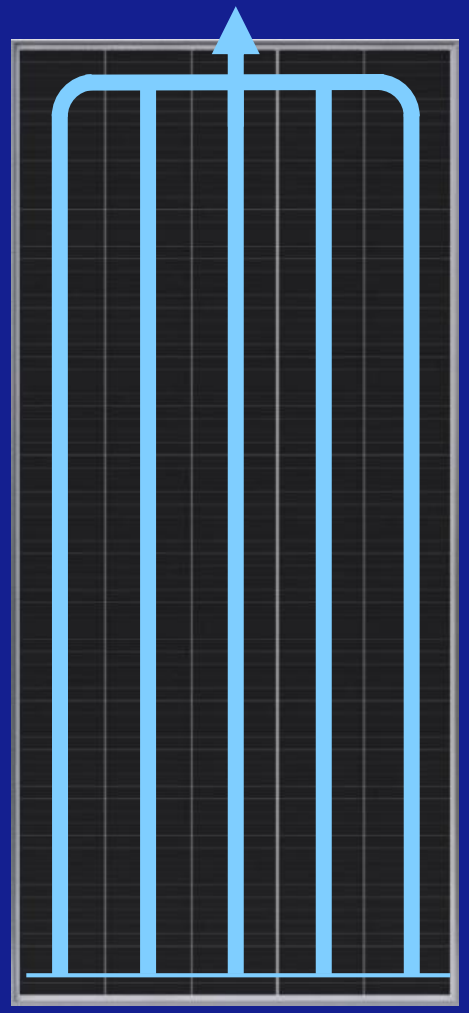
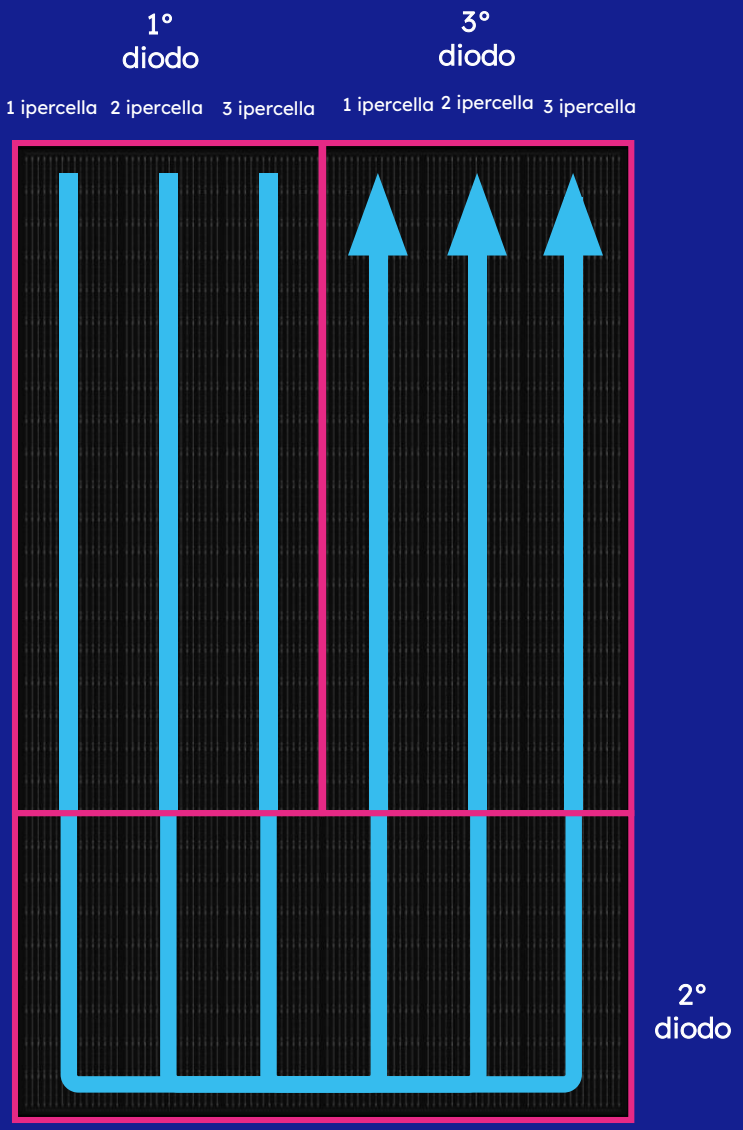
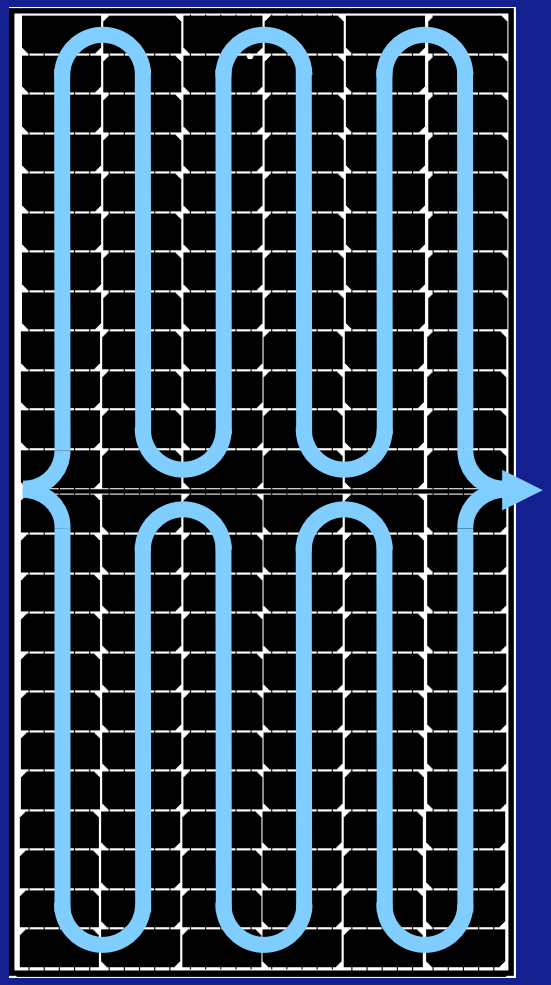


PERFORMANCE 6




PERFORMANCE 7

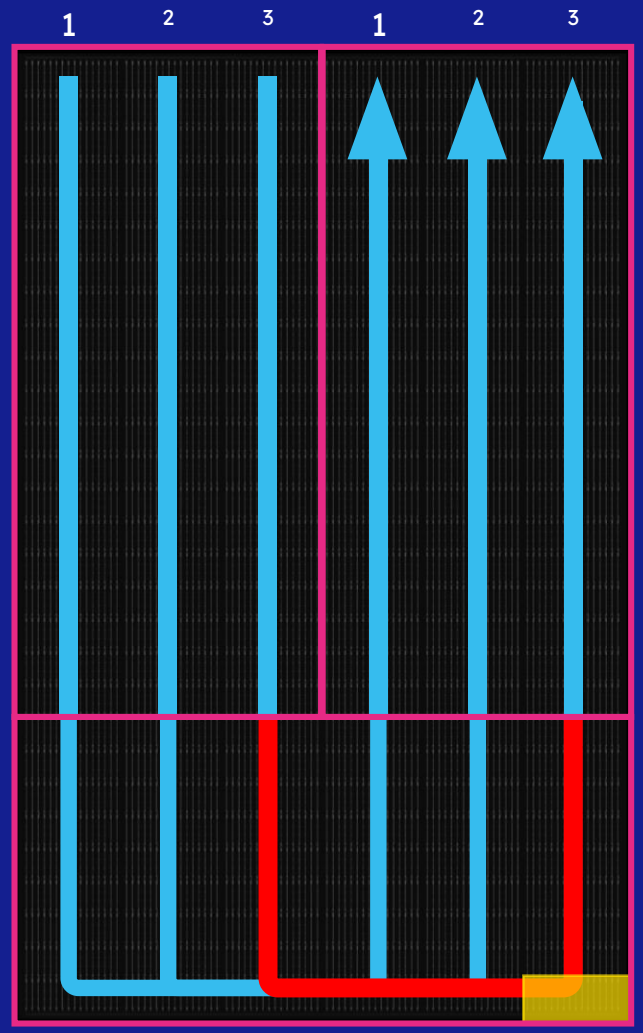


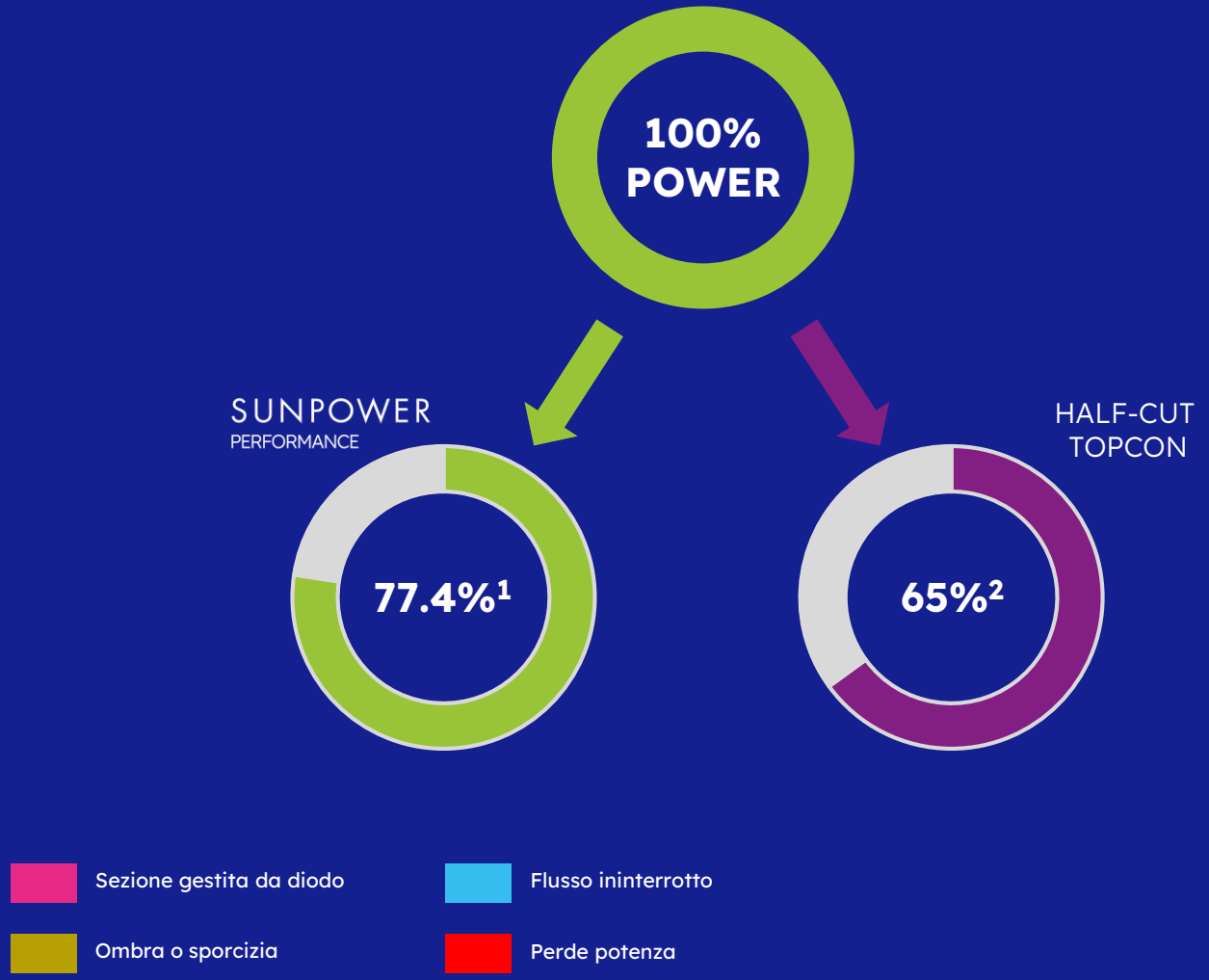
HALF-CUT TOPCON

Sezione gestita da diodo

Flusso ininterrotto

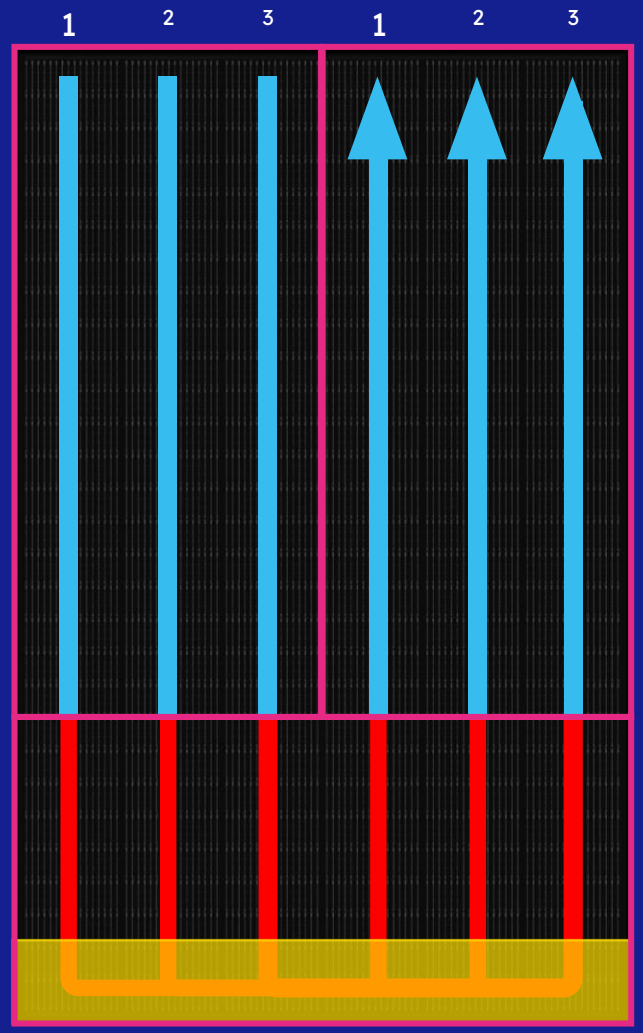
SUNPOWER | FROM MAXEON SOLAR TECHNOLOGIES

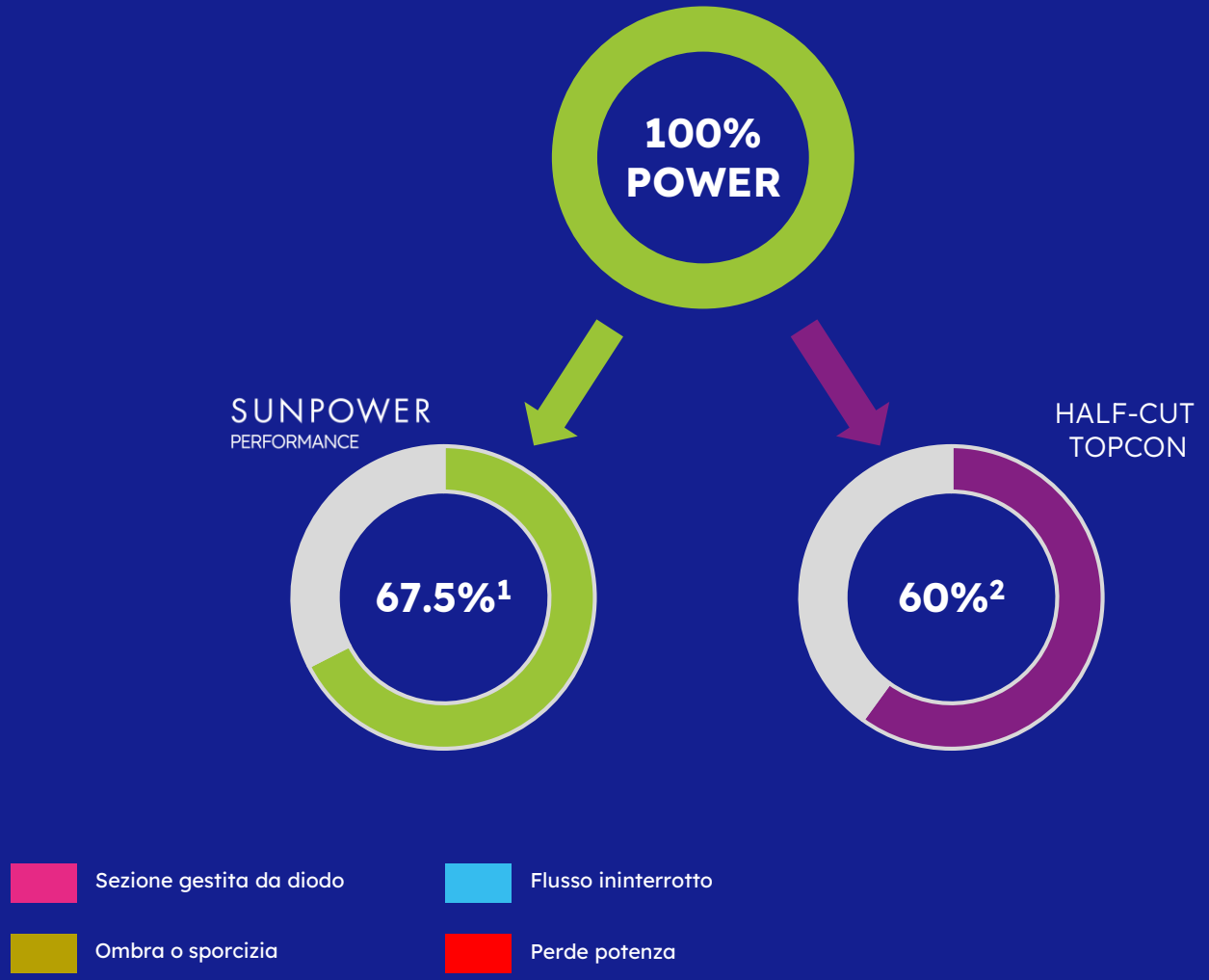



SUNPOWER | FROM MAXEON SOLAR TECHNOLOGIES

[1] One cell of the panel shaded (single module, part of footnote two testing).
[2] Based on internal R&D hotspot and shade testing vs standard half cut TOPCon panels.




SUNPOWER | FROM MAXEON SOLAR TECHNOLOGIES

[1] One cell of the panel shaded (single module, part of footnote two testing).
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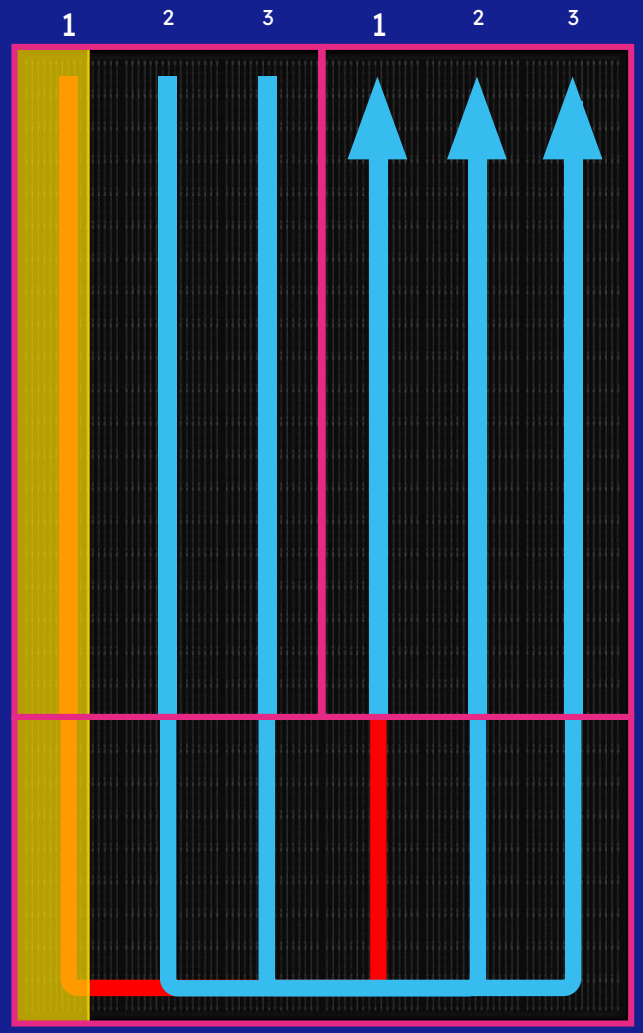


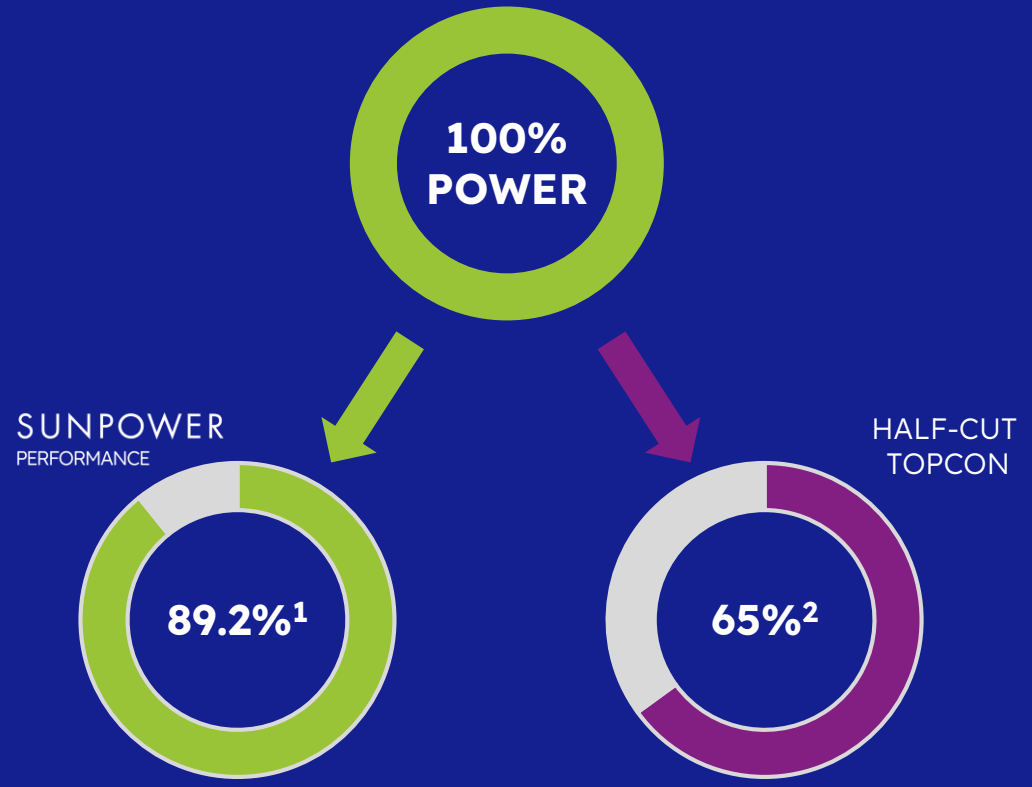


Sezione gestita da diodo

Flusso ininterrotto

Ombra o sporcizia

Perde potenza

[1] One cell of the panel shaded (single module, part of footnote two testing).
[2] Based on internal R&D hotspot and shade testing vs standard half cut TOPCon panels.

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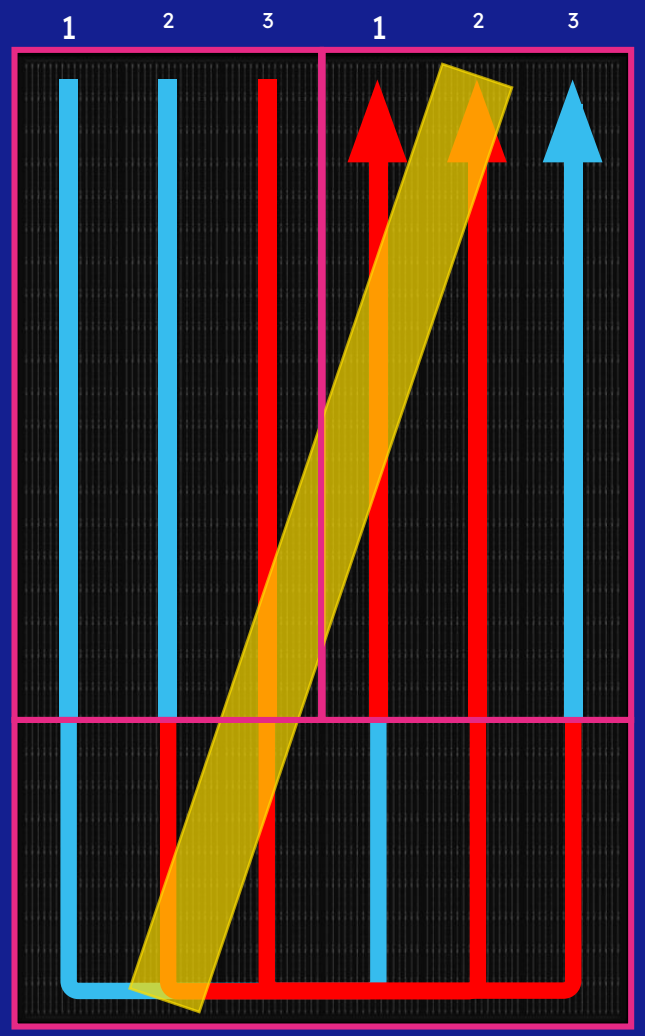


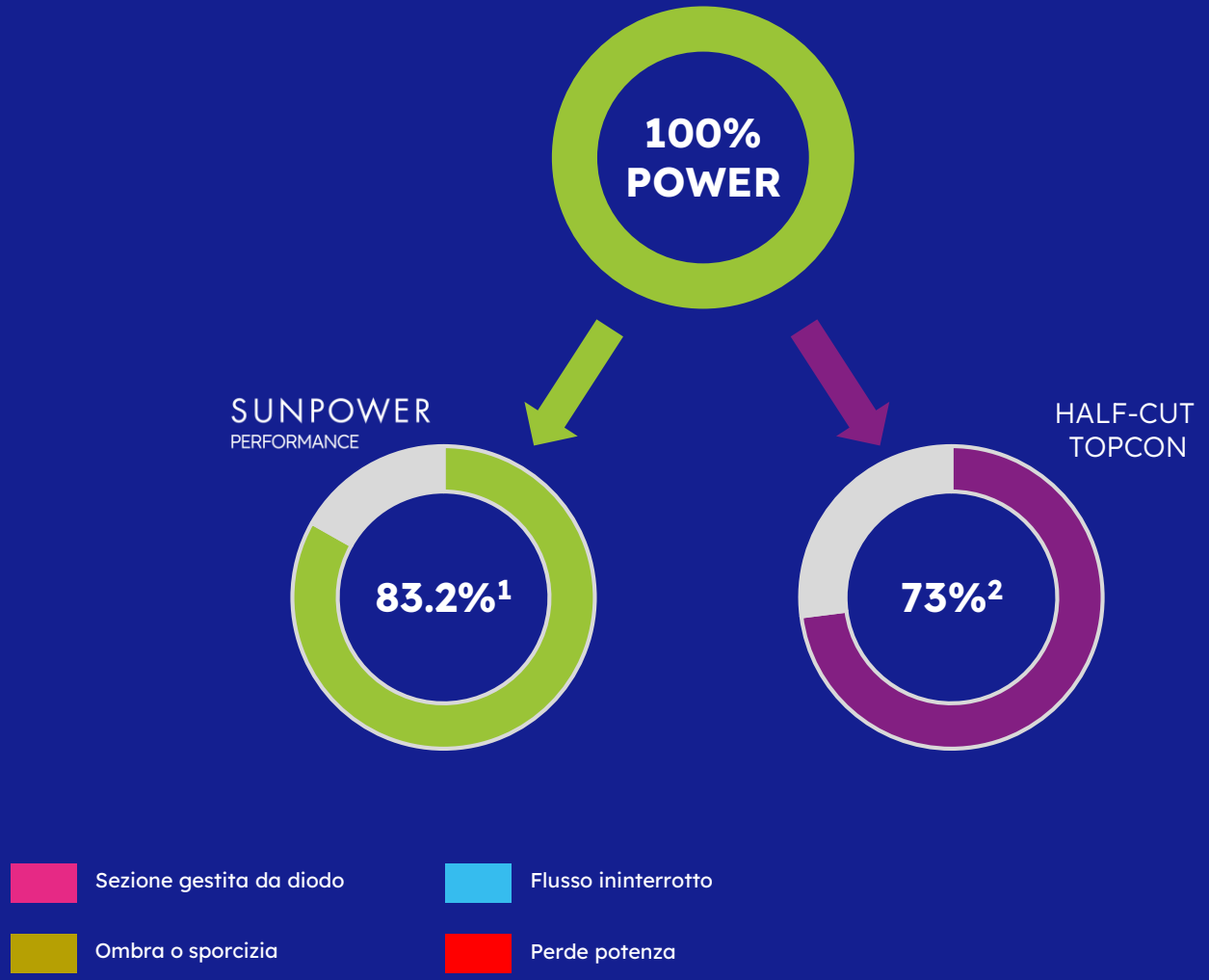


SUNPOWER | FROM MAXEON SOLAR TECHNOLOGIES

[1] One cell of the panel shaded (single module, part of footnote two testing).
[2] Based on internal R&D hotspot and shade testing vs standard half cut TOPCon panels.

# DETTAGLI TECNICI

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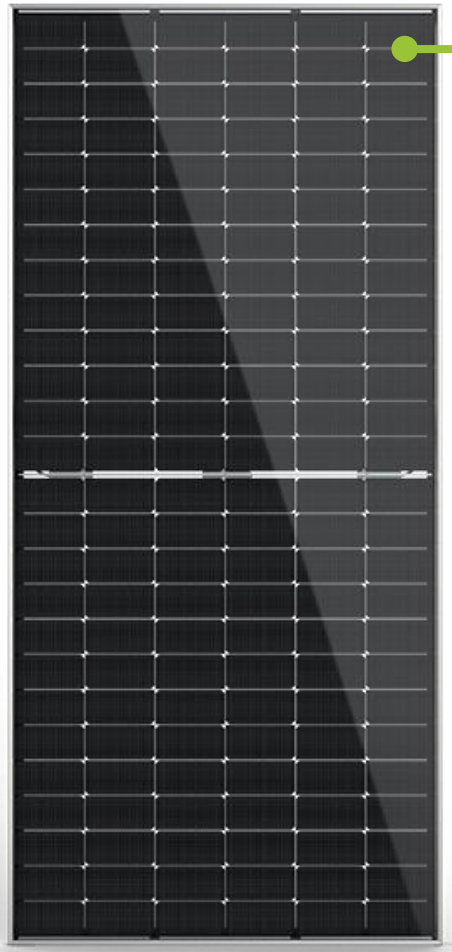
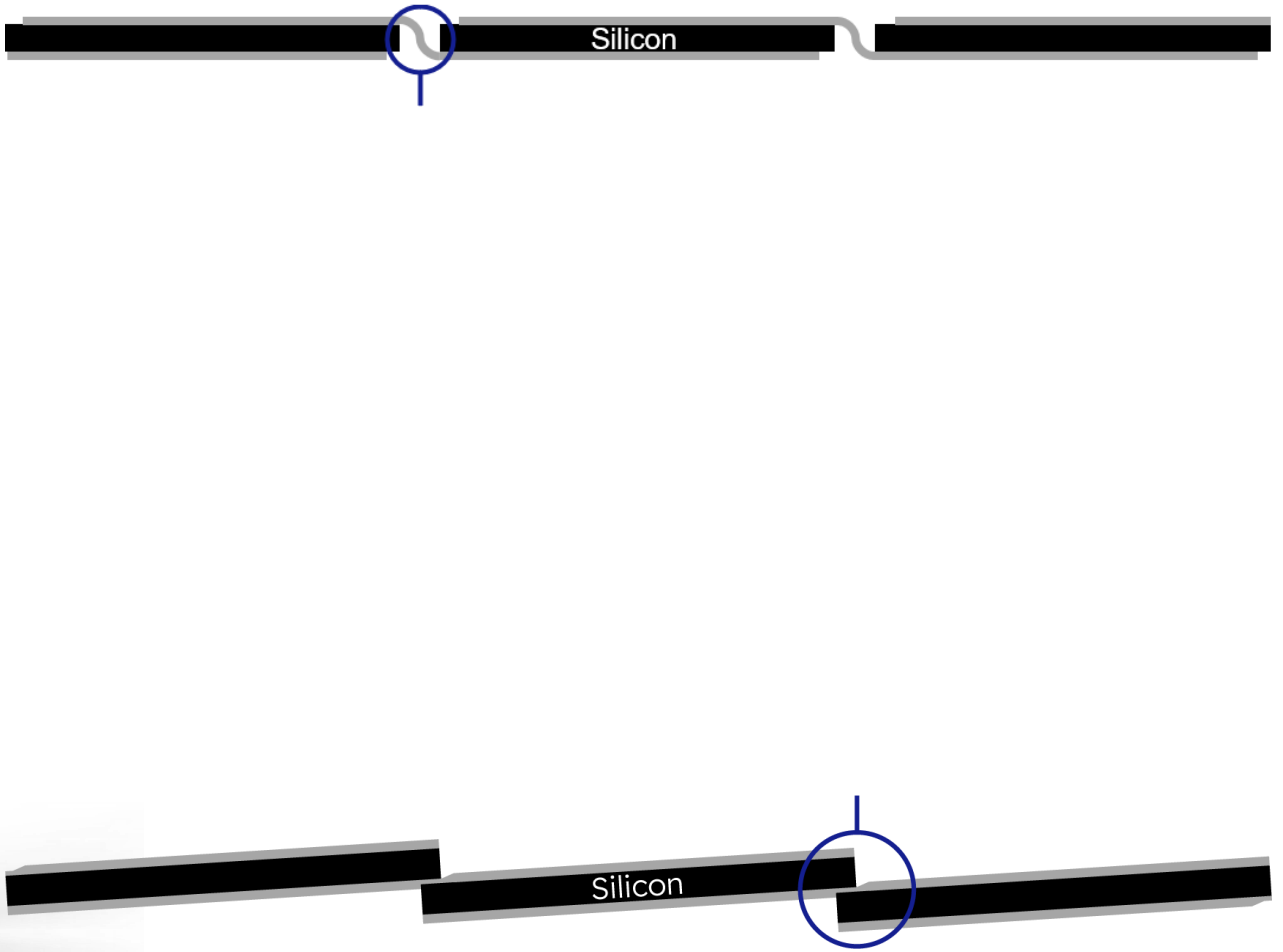
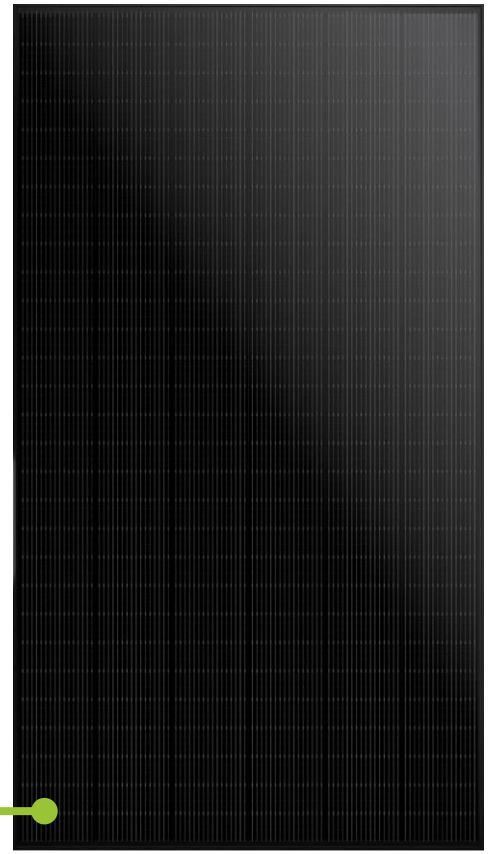
# HALF-CUT TOPCON

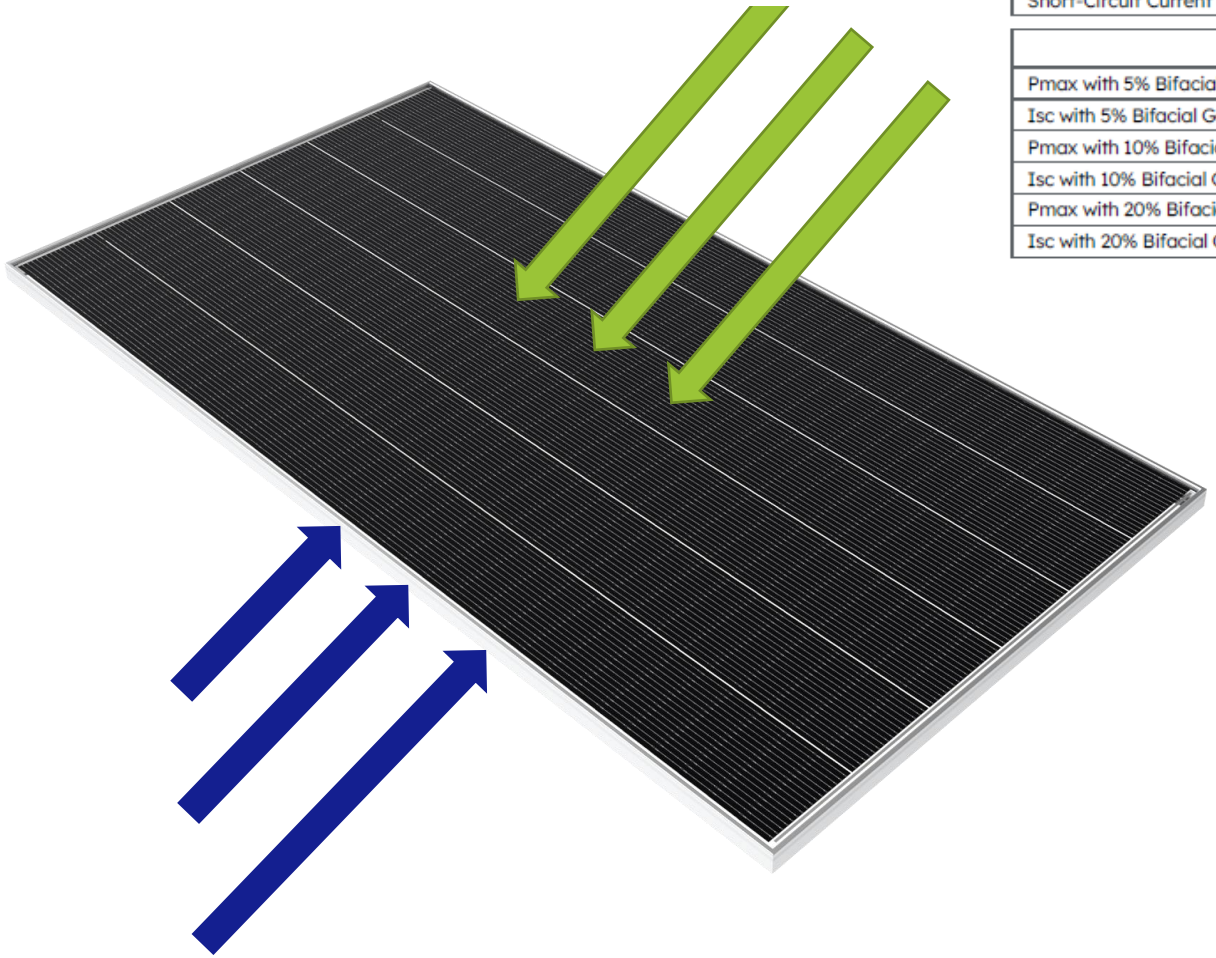




PERFORMANCE

| Electrical Data | |
|---|---|
| Bifaciality (φPmax) | 80% +/–10% |
| Maximum System Voltage | 1500 V IEC |
| Temperature | –40°C to +85°C |
| Maximum Series Fuse | 25 A |
| Power Temp. Coef. | –0.29% / ° C |
| Voltage Temp. Coef. | –0.25% / ° C |
| Current Temp. Coef. | 0.045% / ° C |



| Electrical Data, Front STC Characteristics[1] | | | | | |
|---|---|---|---|---|---|
| | SPR-P7-550-COM-S | SPR-P7-545-COM-S | SPR-P7-540-COM-S | SPR-P7-535-COM-S | SPR-P7-530-COM-S |
| Nominal Power (Pnom) | 550 W | 545 W | 540 W | 535 W | 530 W |
| Power Tolerance | +3/0% | +3/0% | +3/0% | +3/0% | +3/0% |
| Panel Efficiency | 22.5% | 22.3% | 22.1% | 21.9% | 21.7% |
| Rated Voltage (Vmpp) | 43.08 V | 42.85 V | 42.63 V | 42.40 V | 42.17 V |
| Rated Current (Impp) | 12.77 A | 12.72 A | 12.67 A | 12.62 A | 12.57 A |
| Open-Circuit Voltage (Voc) (+/–3%) | 50.70 V | 50.52 V | 50.34 V | 50.14 V | 49.94 V |
| Short-Circuit Current (Isc) (+/–4%) | 13.48 A | 13.45 A | 13.42 A | 13.39 A | 13.36 A |

| Bifacial Gain[2] | | | | | |
|---|---|---|---|---|---|
| Pmax with 5% Bifacial Gain | 578 W | 572 W | 567 W | 562 W | 557 W |
| Isc with 5% Bifacial Gain | 14.15 A | 14.12 A | 14.09 A | 14.06 A | 14.03 A |
| Pmax with 10% Bifacial Gain | 605 W | 600 W | 594 W | 589 W | 583 W |
| Isc with 10% Bifacial Gain | 14.83 A | 14.80 A | 14.76 A | 14.73 A | 14.70 A |
| Pmax with 20% Bifacial Gain | 660 W | 654 W | 648 W | 642 W | 636 W |
| Isc with 20% Bifacial Gain | 16.18 A | 16.14 A | 16.10 A | 16.07 A | 16.03 A |

| | |
|---|---|
| Product and power coverage | 30 / 30 Years |
| Year 1 minimum warranted output | 99.0% |
| Maximum annual degradation | 0.4% |

| Mechanical Data | |
|---|---|
| Solar Cells | N-type Topcon |
| Glass | 2.0 mm + 2.0 mm, high-transmission tempered anti-reflective |
| Junction Box | IP-68, 3 bypass diodes |
| Connector | Stäubli Evo2 |
| Weight | 30.3 kg |
| Max. Load[3] | Wind: 2400 Pa, 245 kg/m² front & back<br>Snow: 5400 Pa, 550 kg/m² front |
| Impact Resistance | 40 mm diameter hail at 27.5 m/s |
| Frame | Silver anodized aluminum alloy |

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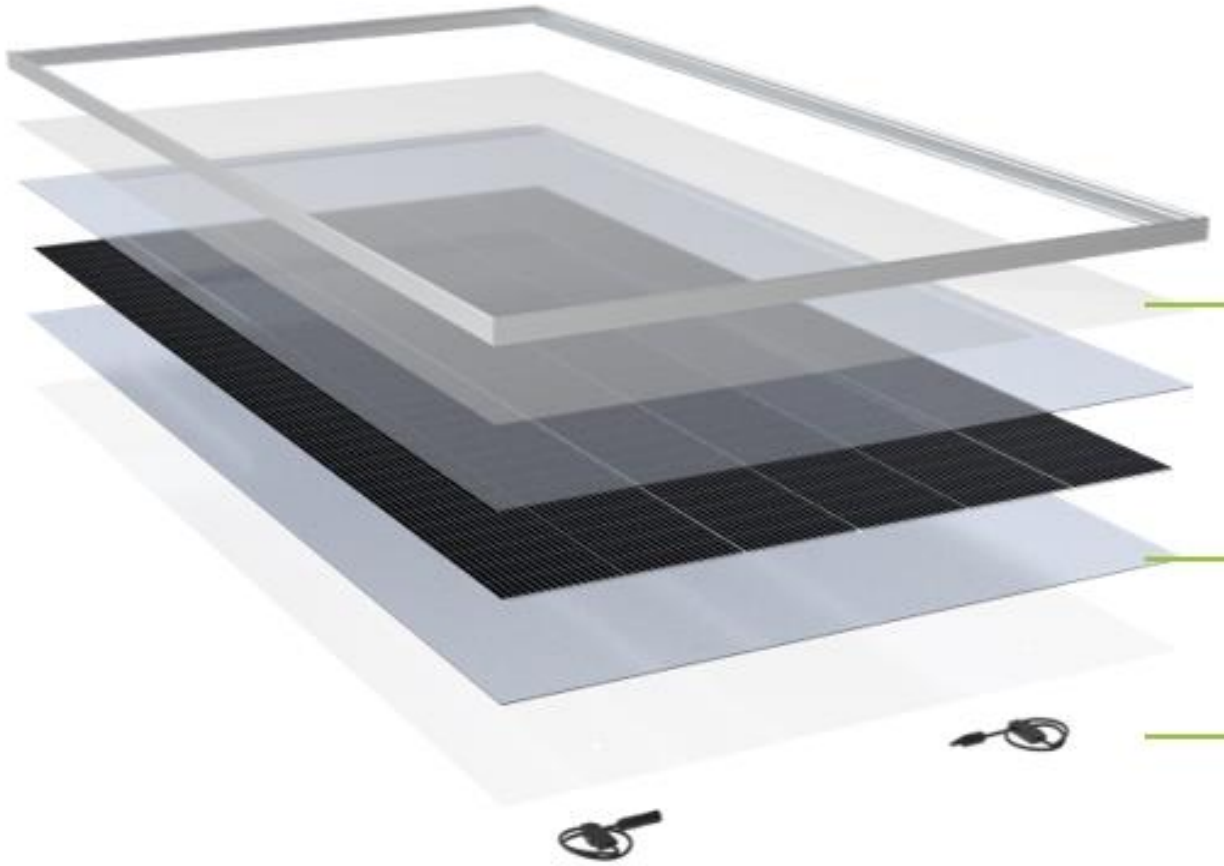
# STRUTTURA DEI PANNELLI DI ALTA QUALITÀ

## Protezione contro condizioni climatiche avverse per una produzione affidabile a lungo termine



**La struttura vetro – vetro** protegge da eventi atmosferici estremi e dalle sollecitazioni in fase di installazione

**L'incapsulante POE** offre un'eccezionale protezione, creando una barriera contro la formazione di umidità per evitare fenomeni di corrosione

**3 x junction box e diodi di bypass, cavi lunghi e connettori Stäubli Evo2** per prestazioni affidabili e opzioni di progettazione flessibili

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# LEVE COMMERCIALI C&I

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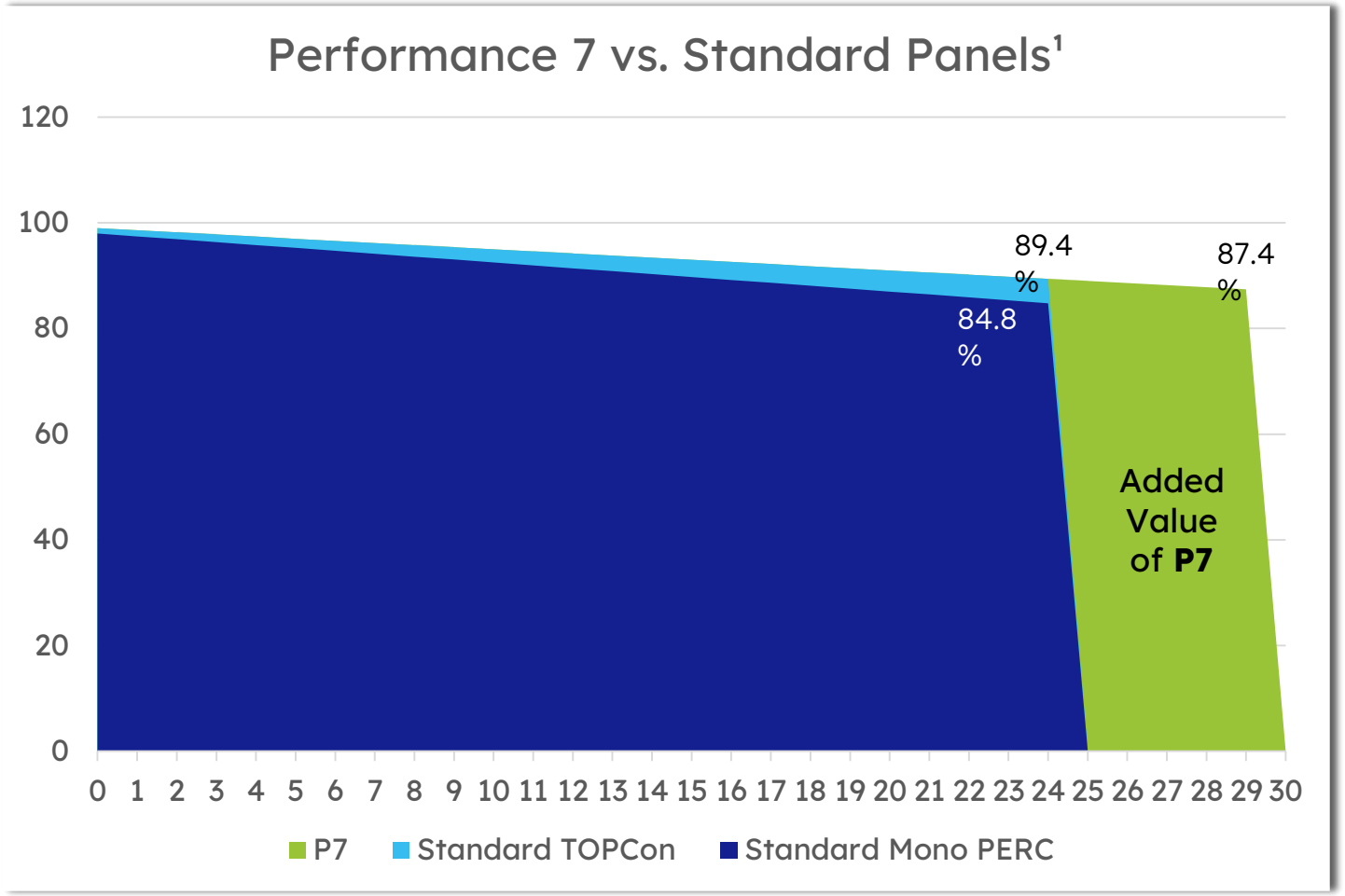
CERTIFIED
cradle to cradle
BRONZE

30 ANNI
GARANZIA
Potenza | Prodotto | Assistenza

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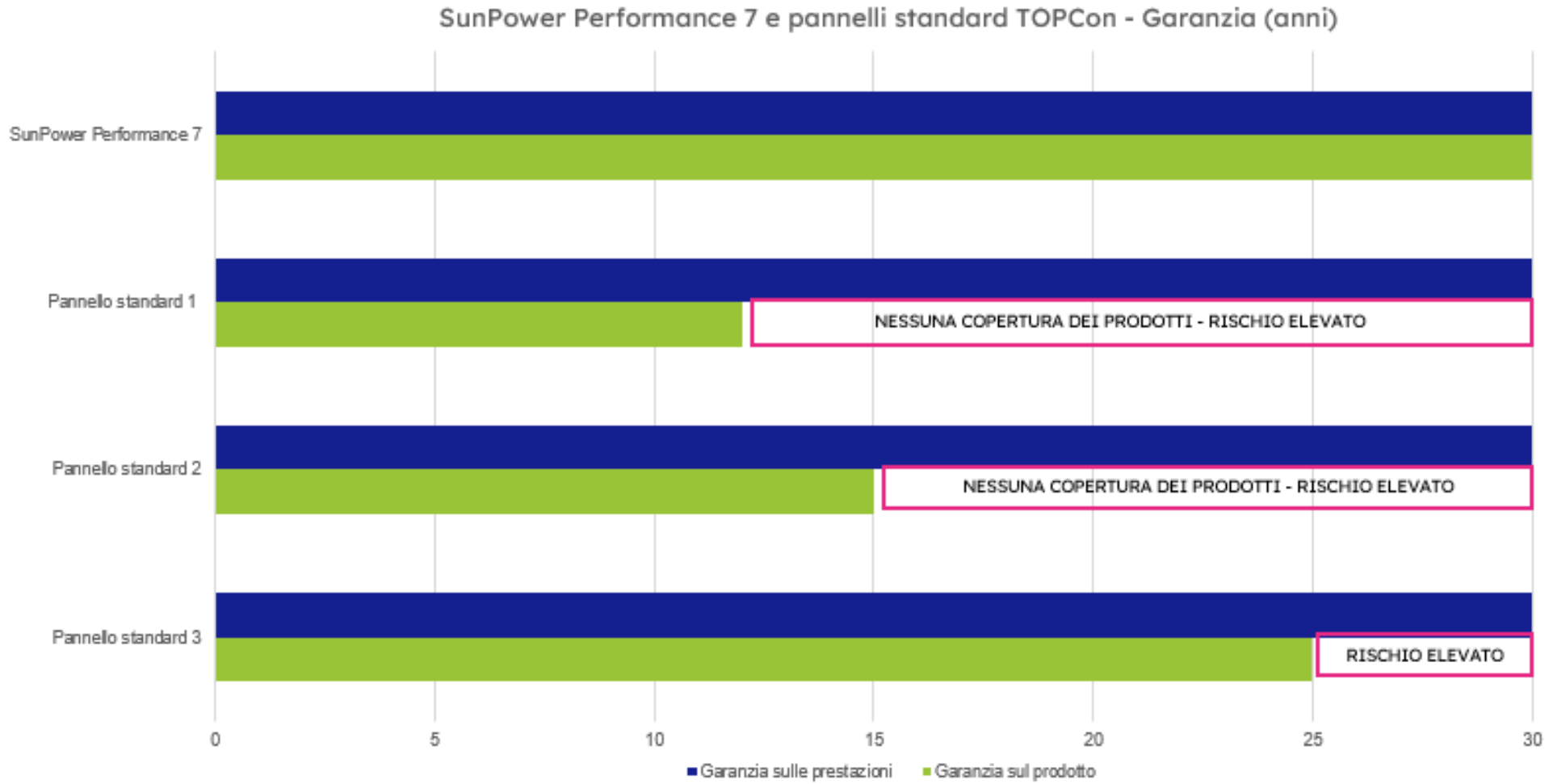
# Migliore copertura e meno rischi

## Le garanzie prodotto tradizionali possono esporre al rischio di difetti di fabbricazione.

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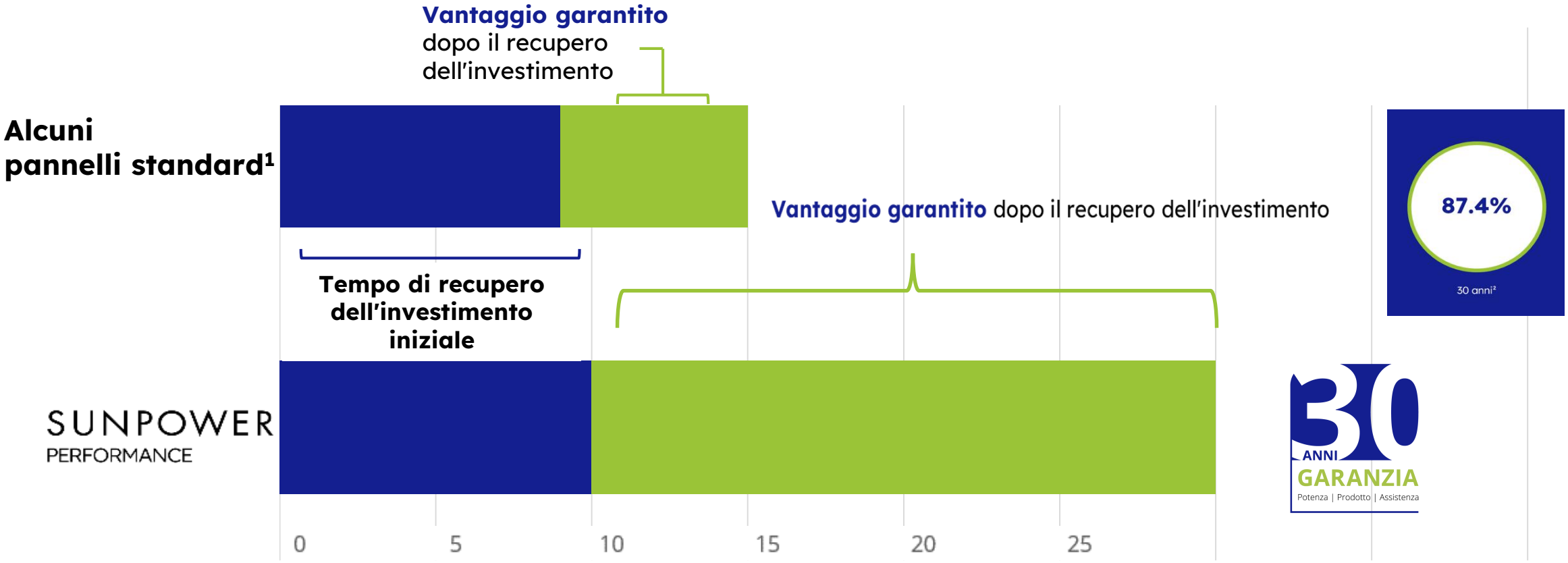
# ROI PIÙ VELOCE




[1]Garanzia di 15 anni sul prodotto su pannello TOPCon standard.



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Premier Partner

# Analisi rendimenti 01/06/23 - 13/03/24

## Confronto producibilità impianti

| Periodo | Impianto 1 Pn=570 kWp Modulo Half Cut Tier 1 Chinese + SMA SPT110-Core 2 | | | Impianto 2 Pn=1002 kWp SunPower P3-400-COM + SMA SPT110-Core 2 | | |
|---|---|---|---|---|---|---|
| | Producibilità Attesa PVGIS (kWh) | Producibilità Effettiva (kWh) | Differenza % | Producibilità Attesa PVGIS (kWh) | Producibilità Effettiva (kWh) | Differenza % |
| giu-23 | 82.615 | 82.146 | -0,57% | 140.539 | 160.724 | 14,36% |
| lug-23 | 87.370 | 89.339 | 2,25% | 150.696 | 173.654 | 15,23% |
| ago-23 | 74.382 | 76.690 | 3,10% | 133.155 | 159.531 | 19,81% |
| set-23 | 55.542 | 57.094 | 2,79% | 103.877 | 121.337 | 16,81% |
| ott-23 | 34.857 | 38.140 | 9,42% | 72.551 | 81.296 | 12,05% |
| nov-23 | 20.841 | 24.452 | 17,33% | 46.481 | 62.987 | 35,51% |
| dic-23 | 18.076 | 16.304 | -9,80% | 45.100 | 46.590 | 3,30% |
| gen-24 | 21.679 | 20.793 | -4,09% | 50.860 | 51.150 | 0,57% |
| feb-24 | 29.289 | 27.015 | -7,76% | 61.555 | 62.792 | 2,01% |
| mar-24 | 20.985 | 15.033 | -28,36% | 41.690 | 34.200 | -17,97% |
| **Totale** | **445.636** | **447.006** | 0,31% | **846.504** | **954.261** | 12,73% |
| **13/03/2023** | **2.064** | **2.213** | 7,23% | **4.030** | **5.049** | 25,30% |


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# LEADER IN MATERIA DI PRODUZIONE SOSTENIBILE

**RESPONSABILE**
Un prodotto che dura più di 40 anni, realizzato con materiali riciclabili.


# Grazie

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