

# **Azur space solar cell**





## Overview

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Azur Space ist ein international tätiges Unternehmen aus der mit Sitz in , das und Baugruppen in -Technologie für die und für terrestrische entwickelt und produziert.



## Azur space solar cell

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### Azur Space Solar Power - Wikipedia

Azur Space ist ein international tätiges Unternehmen aus der Photovoltaikbranche mit Sitz in Heilbronn, das Triplesolarzellen und Baugruppen in Galliumarsenid -Technologie für die Raumfahrt und für

### Factory Highlights , Azur Space

High-Tech Cleanroom Fabrication For fabrication of solar cell structures, we use a sophisticated metal-organic vapor phase epitaxy (MOVPE) process, which has been continuously developed since 1999



### AZUR SPACE SOLAR POWER GMBH Power electronic and

Objective uctor substrates (GaN epitaxial wafers) for the aforementioned fields of application. To this end, AZUR SPACE is planning to set up new production lines for the production of gallium arsenid

### AZUR SPACE SOLAR POWER GMBH Power electronic and

Power electronic and optoelectronic semiconductor devices AZUR SPACE Solar Power GmbH (AZUR SPACE) develops, produces and distributes semiconductor-based components for



## Azur Space Solar Power - Wikipedia

Azur Space ist ein international tätiges Unternehmen aus der Photovoltaikbranche mit Sitz in Heilbronn, das Triplesolarzellen und Baugruppen in Galliumarsenid-Technologie für die Raumfahrt und für terrestrische Konzentratorsysteme entwickelt und produziert. Das Unternehmen ist nach eigenen Angaben im Marktsegment Solarzellen für Telekommunikationsanwendungen Weltmarktführer. Neben Solarzellen für die Raumfahrt stellt das U

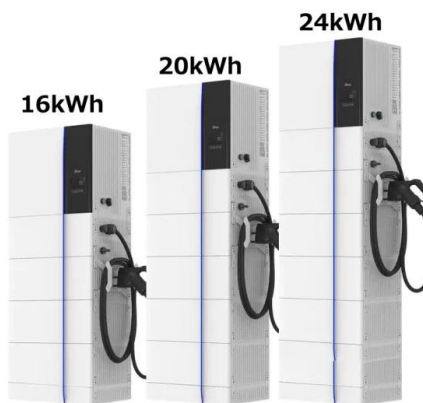
## AZUR SPACE Solar Power GmbH

Based on nearly 50 years' experience in space solar cell technology, AZUR SPACE brings back from space its latest photovoltaic technology for terrestrial applications. Our state-of-the-art solar cells



## Space Solar Cells - 3G30 and Next Generation Radiation Hard Products

The 3G30-Advanced, AZUR SPACE's latest qualified solar cell product, provides highest end-of-life efficiencies in space. The cell reaches 27.8% at a fluence of  $5 \times 10^{14} \text{ cm}^{-2}$  and 26.5% at a fluence of 1



## Space Solar Cells - 3G30 and Next Generation Radiation Hard Products

It utilizes the excess current of the Ge subcell by a metamorphic cell concept and a fourth junction added to the stack. This cell will be qualified by mid-2017. This paper summarizes the



## AZUR SPACE Solar Power

The company offers solar cells that feature small temperature coefficients and power-to-mass ratio, utilizing III-V compound semiconductor materials. AZUR SPACE provides a range of products

## Azur-Space 3C44C CPV Triple Junction Solar Cell

As the key component of a photovoltaic system, solar cells significantly contribute to the total costs of a CPV power plants. The demand to keep these costs as low





**Product Model**  
HJ-ESS-215A(100KW/215KWh)  
HJ-ESS-115A(50KW/115KWh)

**Dimensions**  
1600\*1280\*2200mm  
1600\*1200\*2000mm

**Rated Battery Capacity**  
215KWH/115KWH

**Battery Cooling Method**  
Air Cooled/Liquid Cooled



## Space Products , Azur Space

AZUR SPACE's 4G32 solar cell and solar cell assemblies (CIC / SCA) are the ideal solution for space power applications to reach highest power levels on small areas and at low weight. This device offers

## AZUR's 35% solar cell production capacity increase surpasses 30%

By the end of 2025, AZUR intends to increase its solar cell production capacity by a further 30%, with minimal additional investments as most of the equipment has been purchased and



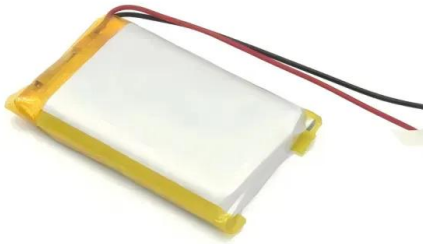
## 5N Plus Inc. to Further Increase Space Solar Cell Production Capacity

AZUR has a strong track record of expanding operations with limited new investments, taking advantage of available onsite physical space to meet growing demand. With each capacity

## AZUR SPACE SOLAR POWER GMBH Leistungselektronische und

Leistungselektronische und optoelektronische Halbleiter- Bauelemente Die AZUR SPACE Solar Power GmbH (AZUR SPACE) entwickelt, produziert und vertreibt auf Halbleitern basierende Bauelemente





## AZUR's 35% solar cell production capacity increase surpasses 30%

The additional 30% capacity increase through 2025 will be achieved by the newly installed and commissioned epitaxy reactors for front-end production to grow multi-layer

## Welcome , Azur Space

AZUR SPACE is a global leader in development and production of multi-junction solar cells for space photovoltaics (PV) and terrestrial concentrating photovoltaics (CPV) applications. Based on more

**Outdoor Cabinet BESS**  
50 kWh/500 kWh Battery Storage System  
Industrial and Commercial Energy Storage



- All in One**  
Integrating battery packs
- High-capacity**  
50 - 500kWh
- Degree of Protection**  
IP54
- Operating Temperature Range**  
-20~60°C(Derating above 50 °C)
- Intelligent Integration**  
Integrated photovoltaic storage cabinet
- Rated AC Power**  
50 - 100kW
- Altitude**  
3000m(>3000m derating)

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