

Elevate Every Rooftop Superior Aesthetics

ASTRO N7s 3.0



Your Premium Rooftop Choice - Seamless, Smart, Strong, Sleek.

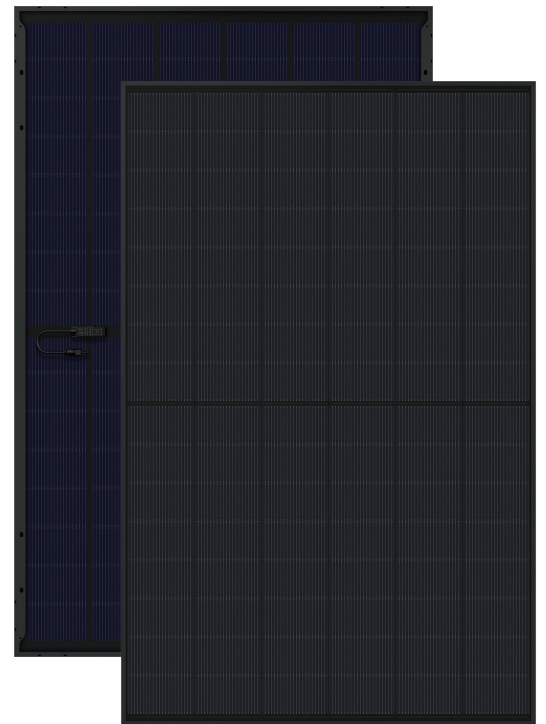
-  More Power, More Energy - Up to 475W | 23.8%
-  Premium All-black Design (Blends with Any Roof)
-  Fast & Easy Installation (One-person Handling)
-  Built to Last (25-year Product Warranty)

CHSM48RN(DG)(BLH)/F-BH

Module Dimension	1762*1134*30 mm
Bifaciality	UP to 80±10%

INDUSTRY-LEADING WARRANTY

Product Warranty 25-year	Liner Power Warranty 30-year
First-year Degradation ≤1%	Annual Degradation ≤0.4%



BUILT FOR REAL ROOFTOPS

More Power from Every Panel

- Up to **475W** output and **23.8%** efficiency for more energy generation.
- More active cell area helps **maximize power production** from the same roof space.
- Generate **more electricity** with every installed module.

Premium Aesthetics for Modern Homes

- Clean **all-black appearance** for premium residential projects.
- **Better visual consistency** with fewer visible gaps and distractions.
- **Blends naturally** with modern rooftops and architectural styles.

Built to Handle Real-World Conditions

- **Excellent resistance** to heat, humidity and harsh environments.
- **Proven protection** against extreme weather, including hail impact.
- Durable double-glass design built for **long-term reliability**.

Easier to Install, Easier to Deploy

- Compact size under 2m² allows **one-person handling and installation**.
- **Compatible** with most mainstream mounting systems. Faster installation with **lower labor requirements**.

MAXIMIZE YOUR RETURN - Typical German Residential PV Scenarios

475W
ASTRO N7s 3.0

20
Module Count

≈ 9.5+ kWp
System Capacity

≈ 40+ m²
Module Area



 SOUTH-FACING INSTALLATION	10,832 kWh/year	 Annual Energy Yield	8,347 kWh/year	 EAST-WEST INSTALLATION
 20 modules on the south-facing roof	57,010 km	 EV Driving Equivalent	43,932 km	 10 modules on the east-facing roof
 Optimal orientation for maximum yield	2.7 years	 4-Person Household Electricity Equivalent	2.1 years	 10 modules on the west-facing roof
				 Better distribution of energy generation throughout the day

* The two installation scenarios use the same system configuration; only the module orientation differs.
* Based on 19 kWh/100 km for EV consumption and 4,000 kWh/year for a typical four-person German household.

WHY ASTRONERGY

Trusted EU Presence
With deep localization in Europe since 2013, and supported by 55+ local professionals across key functions including Sales, GTS, MKT, After Sales, Logistics, Finance, and IT

Extensive PV Experience
The parent company, CHINT Group as the only company worldwide ranked BNEF Tier 1 in PV modules, inverters and energy storage

Stable Supply Chain
Diversified global supply chain with 12 advanced manufacturing bases, including Turkey, ensuring stable production and on-time delivery

First-Tier Traceability
A first-tier traceability system that guarantees full transparency and reliability for high-quality products

Consistently Improving Bankability
Consistently enhanced financial stability, building a reliable reputation with investors and financial institutions

Industry-Leading Recognition
Recognized as a PVEL 'TOP Performer' for 10 years, demonstrating exceptional reliability in the industry

 **Berlin, Germany**
EU Headquarters