

# S-Class Integration Deluxe

200 Wp ■ 210 Wp ■ 215 Wp

In-roof system for excellence in design and high yields

- Attractive design solution\*
- In-roof panels with Solrif frame
- Easy to install, reliable operation
- Rainproofed in combination with recommended CS mounting systems
- Highest yields even under diffuse light conditions
- Multiple award-winning anti-reflective glass
- Lockable plug connectors
- Positive power classification
- Manufactured in the CENTROSOLAR factory, certified in accordance with DIN EN ISO 9001:2008, 14001:2009 and OHSAS 18001
- Ten-year product warranty\*\*
- 26-year linear performance warranty\*\*



\* Slight colour variation of panels is possible due to specific conditions in production.  
 \*\* For detailed information, please consult the Centrosolar AG warranty conditions.



- Qualified, IEC 61215
- Safety tested, IEC 61730
- Heavy Snow Load tested
- Ammonia resistance tested
- Salt corrosion resistance tested
- ANSI/UL 1703 Ested
- Periodic inspection



## S-Class Integration Deluxe, monocrystalline

### Performance under STC\*

| Panel type                  | S 200M50 | S 210M50 | S 215M50 |    |
|-----------------------------|----------|----------|----------|----|
| Rated power (Pmpp)          | 200      | 210      | 215      | Wp |
| Short-circuit current (Isc) | 8.91     | 9.03     | 9.13     | A  |
| Open-circuit voltage (Uoc)  | 30.97    | 31.57    | 31.75    | V  |
| Voltage (Umpp)              | 24.27    | 24.95    | 25.24    | V  |
| Current (Impp)              | 8.26     | 8.42     | 8.52     | A  |
| Efficiency $\eta^{**}$      | 13.83    | 14.49    | 14.83    | %  |

\* Under Standard Test Conditions (STC) (1,000 W/m<sup>2</sup>, spectrum AM 1.5, cell temperature 25°C), measurement tolerances STC:  $\pm 3\%$  (Pmpp);  $\pm 10\%$  (Isc, Uoc, Impp, Umpp)

### Power at 800 W/m<sup>2</sup>, NOCT, AM 1.5

| Panel type                  | S 200M50 | S 210M50 | S 215M50 |    |
|-----------------------------|----------|----------|----------|----|
| Rated power (Pmpp)          | 149.96   | 157.08   | 160.66   | Wp |
| Short-circuit current (Isc) | 7.17     | 7.27     | 7.35     | A  |
| Open-circuit voltage (Uoc)  | 29.17    | 29.74    | 29.91    | V  |
| Voltage (Umpp)              | 22.81    | 23.43    | 23.68    | V  |
| Current (Impp)              | 6.57     | 6.70     | 6.78     | A  |

### Thermal properties

|         |            |     |
|---------|------------|-----|
| TC Pmpp | -0.43      | %/K |
| TC Uoc  | -0.36      | %/K |
| TC Isc  | 0.03       | %/K |
| NOCT    | 46 $\pm$ 2 | °C  |

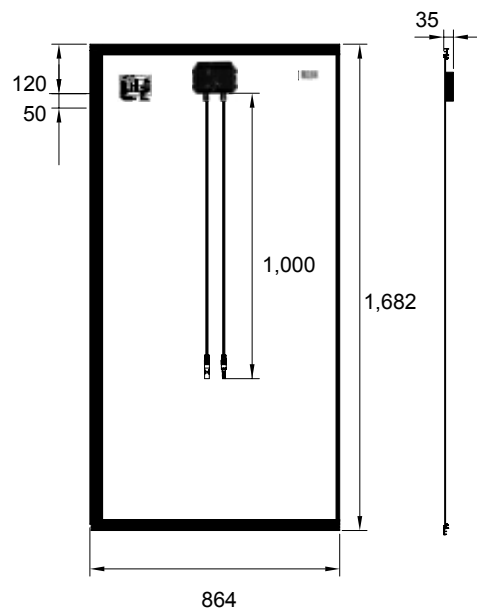
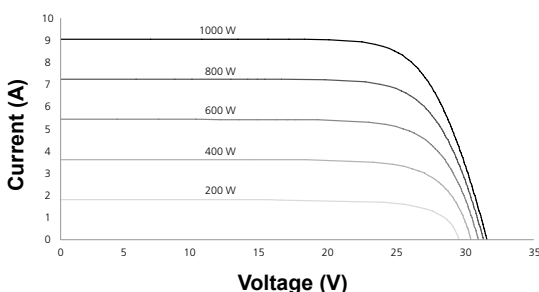
### Other technical specifications

|                                       |                |    |
|---------------------------------------|----------------|----|
| Class range (positive classification) | -0/+4.99       | W  |
| Max. system voltage                   | 1,000          | V  |
| Weight                                | 17.5 $\pm$ 0.5 | kg |
| Reverse current load IR               | 15             | A  |
| Pmpp measurement accuracy at STC      | $\pm 3$        | %  |
| Frame height                          | 35             | mm |

### Materials used

|                 |                      |
|-----------------|----------------------|
| Cell count      | 50                   |
| Cell dimensions | 156 mm x 156 mm      |
| Front side      | Hardened solar glass |
| Connector       | IP65                 |

I-V curve S 210M50 Integration Deluxe



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Measurements in mm

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