



# Optimum use of space with back contact modules Case Study

Installation: 75382 Alth.-Ottenbronn, Germany

# System

System size: 5.12 kWp
Surface area: 26.1 m<sup>2</sup>
Roof orientation: South, 200°

Degree roof pitch: 40°

Installation: Roof parallel

#### **Modules**

Type: Sharp NQR256A

Number of panels: 20

Maximum power: 256 Wp

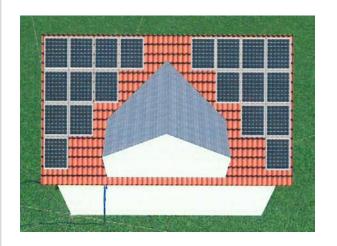
Cells: 48

Size: 1318 x 980 x 46 mm

Best in class efficiency: 19.8%

# Use of space

With the compact Sharp solar modules NQR256A the roof area around the dormers can be optimally used.





### Consumption

Power consumption: 7,000 kWh / year

#### Yield

PV generator power: 4,937 kWh / year
Private consumption: 3,634 kWh / year
Grid feed: 1,303 kWh / year
Specific annual yield: 964.23 kWh / kWp

Private consumption (%): 73.6%

Shading losses: 3.1 % / year

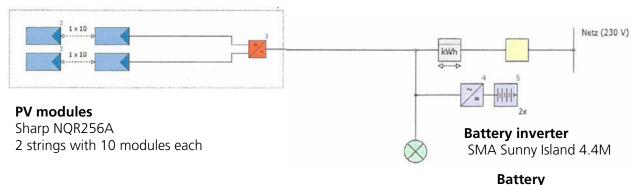
CO<sub>2</sub> emissions

avoided: 2,860 kg / year

### **Components:**

#### **PV** inverter

SMA Sunny Island Tripower 5000TL-20



LG Chem Resu 6.5 5,5 kWh usable

## The installer says

"We have been using solar modules from Sharp for some time. For this installation the compact 48-cell modules from Sharp were the ideal solution. Despite the dormer we were thus able to use the available roof area well. The customer can now achieve a maximum profit."

Martin Walz Elektro + Solartechnik GmbH & Co. KG



