



The
Reliable
Solution

Case Study
Panel: ND-AK275

Solar Powered Holiday Home

6 PV modules supply this Costa Blanca vacation home with electricity to drive the pool pump, air conditioner and heating of water

Project: Beniarbeig, Spain
Installation by: VicenteSOL



VicenteSOL

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Summary:

- **Scale:** 6 SHARP modules were installed on the roof of a vacation home in Beniarbeig.
- **Module:** The SHARP ND-AK275 is salt mist resistance as well as PID resistance certified. The module is part of the "reliable solution"-series.
- **Output:** The modules are producing 1.65 kW of energy, enough to power the pool pump year round, air conditioner and heating of water when the home is not vacant. All the generated electricity is for self-consumption.

PV panels

Product:	ND-AK275
Number of modules:	6
Rated power:	275 W
Cells:	60
Size:	1,640x992x35 mm
Efficiency:	16.9%

Solar power plant

Plant size:	1.65 kW
Roof orientation:	West
Roof pitch:	20°

Other components

SMA Sunnyboy 1.5 inverter

Savings

The annual electricity cost savings are expected to amount to €260.

Beniarbeig, Spain



VicenteSOL is SHARP's partner in the Marina Alta region

With 20 years of experience VicenteSOL is a reliable partner with a great reputation for installing PV systems and other renewable energy solutions in the Marina Alta region. VicenteSOL has worked with SHARP for over 10 years.

What is special about this installation is that the end customer of this installation is a SHARP employee. Andreas Voss, Regional Sales Manager at SHARP Energy Solutions owns this beautiful vacation home in Marina Alta region of Spain. While this region has higher irradiation than most parts of Europe, the use of PV lags behind due to unfavorable legislation of the past. Until recently residential PV installations were hindered by numerous technical and administrative hurdles, such as the fact that self-production of electricity was subject to taxes and feeding excess energy into the grid was not always facilitated. Since April 2019 new policies are in place that liberalise the PV market in Spain.

Sustainability and self-sufficiency

Mr. Voss, chose to install the SHARP PV panels for the environmental benefits first and financial savings second. However he does expect rising electricity prices to shorten the payback period. The electricity consumption of the house is mostly attributed to the pool pump and air conditioning (to control humidity) which run at regular intervals for maintenance even when the house is vacant. The pool pump consumes 4 to 6 kw/h electricity daily depending on the season. The energy consumption of these appliances can be timed to the sunniest hours to enable a lossless energy use.

Forecasted solar radiation is expected to be 2,310 kWh which equates to annual electricity cost savings of €260. The newly installed modules of the SHARP series NDAK will cover the daytime electricity needs of his holiday home and make high electricity bills a thing of the past.





The operator says:

'I am very satisfied that our vacation home is finally solar powered. Now that policy changes have improved the circumstances for solar installations in Spain I suspect that many will go solar. This is another step in the right direction and something I believe in. From now on I benefit from the sunshine in Spain even while I am in the SHARP offices in Hamburg.'

Andreas Voss,

SHARP Regional Sales Manager

The installer says:

'Our passion is energy, in particular solar. What can be better than providing this service in sunny Spain! Our vision is to provide the unlimited power of the sun to the local community. Using the highest quality materials available on the current market at affordable prices for everyone. We have over 10 years experience working in partnership with SHARP, due to the high quality of their products we continue to use their panels for all our projects. We were very pleased to be contacted by Andreas Voss, Sales Manager for SHARP, as our company permanently stocks SHARP panels we are able to supply our clients projects without any waiting time.'

Vincent Berrier,

VicenteSOL





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