



SUN SYSTEM

GREEN ECONOMY

30W SOLAR PANEL

BENINCA

 **100%**
Made in Italy



PRACTICAL, ECOLOGICAL

SUN SYSTEM is the perfect solution for installing automated mechanisms in places where there is no source of electricity and without having to spend money on costly construction.

TECHNOLOGY AND EVOLUTION!

The fact that there is a display panel allows operators to monitor several important parameters regarding historical data and statistics at all times:

- Instant values on battery and solar panel voltage
- Instant values on the current generated by the solar panel and the batteries
- Number of days the system has been in operation
- Average charging current values of the battery and log of consumption data
- Error messages related to over-current battery issues
- Verification of battery charge status

FLEXIBLE BECAUSE IT IS OPEN!

- It is possible to connect to the control unit up to 3 solar panels
- Batteries of varying capacities (7-50Ah) can also be used

LOW ENERGY USE = MORE MANEUVERS!

- The system is controlled via the SUNNY central command device
- SUNNY keeps the automation's control unit deactivated and enables the power supply only after it receives a signal or command over the wire to do so
- Thanks to the card's low energy consumption levels in stand-by mode, the system is able to ensure a number of maneuvers also in hours of the day or periods with less-than-ideal solar radiation conditions



AUTOMATISMI BENINCA SpA • Via del Capitello, 45 • 36066 Sandrigo (VI) ITALY • T +39 0444 751030 • sales@beninca.com



DA.BT18

18 Ah 12 Vdc Battery.



SUN.PANEL

High-performance monocrystalline silicon solar panel (30W).



COL.KSUN

Column for battery housing DA.BT18 and control unit SUNNY, equipped with removable battery tray. H=650x323x230 mm.



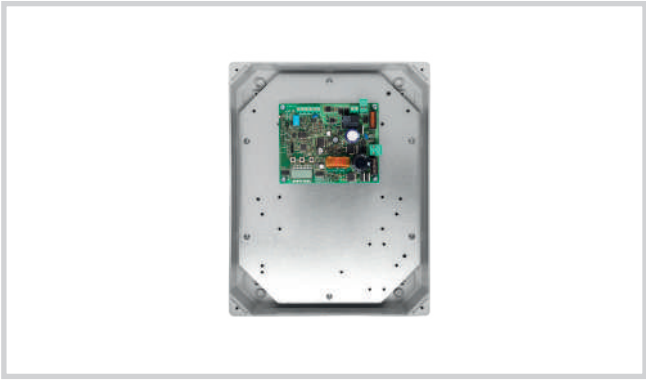
COL.BR

Pair of clamps for fixing solar panel to column COL.KSUN.



KSUN

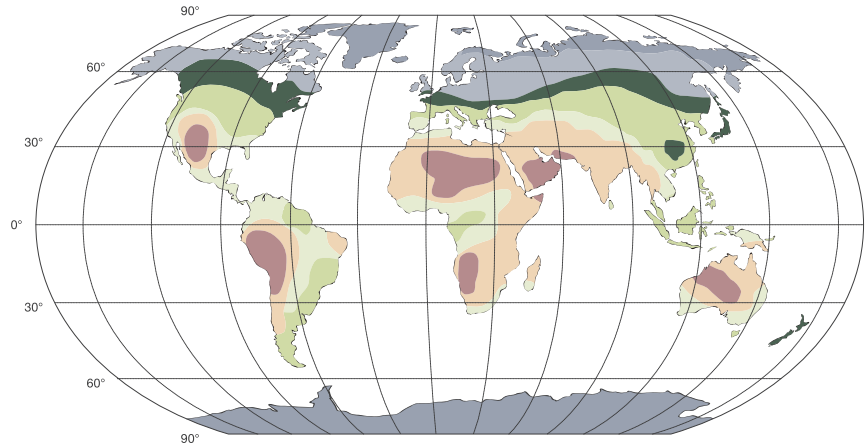
KIT for system operation via solar panel, made up of photovoltaic panel (30W) in monocrystalline silicone and with high efficiency, and a control unit (SUNNY) complete with display and built-in radio receiver. The receiver is capable of managing three types of encoding: Advanced Rolling Code (ARC), Rolling Code, and Programmable Code.



SUNNY

Control unit complete with display, 3 code radio receiver: Advanced Rolling Code (ARC), Rolling Code, and Programmable Code. You can connect up to three solar panels to the control unit.

CHART REGARDING AVERAGE SOLAR RADIATION DISTRIBUTION							
average number of daily manouvres with KBOB24 / KBULL624*	133	114	95	76	57	37	18
average number of daily manouvres with KBULL424*	191	163	136	108	81	54	26
* Refer back to the manual for more precise values The above data refer to some of the configurations possible with SUN SYSTEM							



Hemisphere	Panel orientation

Latitude	Angle of inclination α
0° - 15°	15°
15° - 25°	The value is the same as that of the latitude
25° - 30°	Add 5° to the latitude value
30° - 35°	Add 10° to the latitude value
35° - 40°	Add 15° to the latitude value
> 40°	Add 20° to the latitude value

AUTOMATISMI BENINCA SpA • Via del Capitello, 45 • 36066 Sandrigo (VI) ITALY • T +39 0444 751030 • sales@beninca.com

CONTROL UNIT TECHNICAL DATA	SUNNY
Photovoltaic panel type	Vmp: 15 ÷ 40V (load voltage) Wp: 15 ÷ 80 W (maximum power)
Power supply output	24 Vdc
Protection level	IP55
Operational temperature	-20°C / +50°C
Radio receiver	built-in and configurable (Advanced Rolling Code (ARC) + Rolling Code + Programmable Code)
No. of codes that can be saved	64

SOLAR PANEL TECHNICAL DATA	SUN.PANEL
Voltage with open circuit (Voc)	21.5
Voltage at maximum power (Vmp)	17.5
Short circuit current Isc (A)	1.88
Current at maximum power Imp (A)	1.7
Peak power Wp +/- 5%	30