

# KITS PV

## Instantaneous photovoltaic self-consumption kits for installations connected to the grid



### Description

**PV KITS** are designed to meet the needs of those customers who have to set up a self-consumption photovoltaic energy installation for a certain level of power, but do not know all of the elements that they need. With these kits, the user will be safe in the knowledge that these elements have been correctly selected and sized for their installation. **PV KITS** are compatible with and can incorporate **CDP** (Dynamic Power Controller) systems, which ensure 0 grid injection and come with the certificates that help to obtain legal authorisation for the installation. The kits comprise the following material:

- Photovoltaic modules (adapted to the power of each reference)
- Support structures to secure the photovoltaic modules to any type of roof
- Grid connection photovoltaic inverters.

Optionally, all KITS can be installed with the respective **CDP** protection and control electric panels. These panels include the protection elements for the DC side (**StringBox**) and the AC protection elements (**CombinerBox**), in addition to the control units:

- **CDP-DUO** (dynamic power controller for 0 injection).
- **CVM-MINI** power analyser (in case of three-phase installation)
- **MC** current measurement transformer.

The main advantages of these kits are:

- CIRCUTOR warranty for the whole kit
- Documentation, diagrams and technical assistance for all components.
- Reduction of the logistics chain and number of suppliers for each installation (1 supplier for the whole site instead of 1 supplier per component)
- Dimensioning study according to the user's consumption profile (modules, inverter, protections and structure)
- Solutions for all needs (more than 30 references to choose from)
- The electric panels facilitate the installation and reduce assembly time
- Monitoring with web server

### Applications

Ideal for homes, offices, factories and any other type of building with daily consumption.

### Technical features

<b>Photovoltaic modules</b>	Type	Polycrystalline modules
	Power	280 Wp
	Performance	17,2 %
	Dimensions	1640 x 992 x 40 mm
	Standards	<b>PV cycle, IEC 61215, IEC 61730</b>
<b>Support structures</b>	Types	Sloped or flat roof for horizontal or vertical modules, single or double rows.
	Type of material	Anodised aluminium Stainless steel fasteners
	Quality certificate	<b>NBE-AE 88</b>
<b>Inverter connection to mains</b>	Type	Single or three-phase
	Power	From 1.5 to 20 kW
	European performance	> 94.4% single-phase > 95.6% three-phase (5-15 kWn) > 97.8% three-phase (> 20 kWn)
	Communications	RS-485
	Standards	<b>VDE 0126-1-1, VDE AR-N4105, CEI 0-21, RD 1699:2011, G59/1-2, UNE 217001 IN</b>
<b>AC / DC electric panels</b>	DC protections	gPV rapid cut-off fuses with fuse carriers DC overvoltage protections Output isolator switches
	AC protections	Circuit breaker with ultra-immunised type A RCCB Reverse current protection contactor AC overvoltage protections for each output
	Control and monitoring	<b>CDP, CVM-MINI power analyser</b>
	Quality certificate	Individual report test, certified electric panel with serial number for traceability

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### References

Type	Code	Network type	No. modules	PV power (Wp)	Number of inverters	Inverter power (Wp)	Total power (Wn)
1.5-S	E5K011.	Single-phase 230 V	5	1.400	1	1.500	1.500
1.5-S-PRO	E5K012.	Single-phase 230 V	6	1.680	1	1.500	1.500
2.5-S	E5K021.	Single-phase 230 V	9	2.520	1	2.500	2.500
2.5-S-PRO	E5K022.	Single-phase 230 V	10	2.800	1	2.500	2.500
3-S-T	E5K123.	Three-phase 3 x 230/400 V	12	3.360	1	3.000	3.000
4.5-M	E5K130.	Three-phase 3 x 230/400 V	15	4.200	3	1.500	4.500
5-S	E5K031.	Single-phase 230 V	18	5.040	1	5.000	5.000
5-S-PRO	E5K032.	Single-phase 230 V	20	5.600	1	5.000	5.000
5-S-T	E5K131.	Three-phase 3 x 230/400 V	18	5.040	1	5.000	5.000
5-S-PRO-T	E5K132.	Three-phase 3 x 230/400 V	20	5.600	1	5.000	5.000
6-M	E5K134.	Three-phase 3 x 230/400 V	21	5.880	3	2.000	6.000
6-S	E5K033.	Three-phase 3 x 230/400 V	22	6.160	1	6.000	6.000
6-S-PRO	E5K034.	Three-phase 3 x 230/400 V	24	6.720	1	6.000	6.000
7.5-M	E5K133.	Three-phase 3 x 230/400 V	30	8.400	3	2.500	7.500
9-M	E5K037.	Three-phase 3 x 230/400 V	36	10.080	3	3.000	9.000
9-S	E5K038.	Three-phase 3 x 230/400 V	32	8.960	1	8.000	8.000
9-S-PRO	E5K039.	Three-phase 3 x 230/400 V	34	9.520	1	8.000	8.000
11-S	E5K043.	Three-phase 3 x 230/400 V	40	11.200	1	10.000	10.000
11-S-PRO	E5K044.	Three-phase 3 x 230/400 V	42	11.760	1	10.000	10.000
15-M	E5K051.	Three-phase 3 x 230/400 V	60	16.800	3	5.000	15.000
15-M-PRO	E5K052.	Three-phase 3 x 230/400 V	66	18.480	3	5.000	15.000
15-S	E5K054.	Three-phase 3 x 230/400 V	60	16.800	1	15.000	15.000
20-S	E5K061.	Three-phase 3 x 230/400 V	80	22.400	1	20.000	20.000
20-S-PRO	E5K062.	Three-phase 3 x 230/400 V	84	23.520	1	20.000	20.000
25-M	E5K071.	Three-phase 3 x 230/400 V	96	26.880	2	12.500	25.000
25-M-PRO	E5K072.	Three-phase 3 x 230/400 V	102	28.560	2	12.500	25.000
30-M	E5K081.	Three-phase 3 x 230/400 V	120	33.600	2	15.000	30.000
30-M-PRO	E5K082.	Three-phase 3 x 230/400 V	126	35.280	2	15.000	30.000
40-M-PRO	E5K200.	Three-phase 3 x 230/400 V	168	47.040	2	20.000	40.000
60-M-PRO	E5K210.	Three-phase 3 x 230/400 V	252	70.560	3	20.000	60.000
80-M-PRO	E5K220.	Three-phase 3 x 230/400 V	352	98.560	4	20.000	80.000
100-M-PRO	E5K223.	Three-phase 3 x 230/400 V	420	117.600	5	20.000	100.000

For an order for a PV KIT to be accepted, it is necessary to specify the type of support structures and MC current transformer. Electrical wiring and MC4 connectors for the wiring of strings are not included. The manufacturer's description of individual devices will only be detailed upon confirmation of the order for them.