

AL-KO VT

VEHICLE TECHNOLOGY

Member of **DEXKO**
GLOBAL

PHOTOVOLTAIC MODULES AND KIT



NEW

SUPER BLACK SERIES



MFBC155S

MFBC190
MFBC230
MFBC270

BLACK SERIES



MFB105

MFB140
MFB170

STANDARD SERIES



MF140S
MF200

FLEXIBLE SERIES



MFFL150
MFFL190

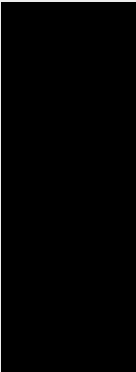
NEW

TOPCON SERIES



MFBN110S

SUPER BLACK PHOTOVOLTAIC MODULES HIGH EFFICIENCY SERIES

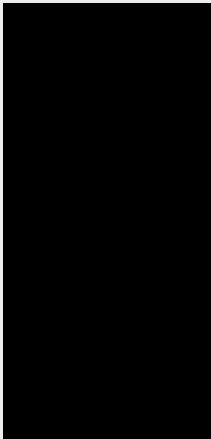


NEW

**SLIM
VERSION**
**WIDTH
515_{mm}**
155W

MFBC155S
155W





NEW

**MAX
WIDTH
675_{mm}**
190W
230W
270W



	SLIM	HIGH POWER		
MODEL	MFBC155S	MFBC190	MFBC230	MFBC270
PART-NR	215986C	215986B	215986D	215986E
TYPE	BC (Back Contact) Super Black Slim Version	BC (Back Contact) Super Black	BC (Back Contact) Super Black	BC (Back Contact) Super Black
CELLS NUMBER	96 (3*32)	60 (4*15)	72 (4*18)	88 (4*22)
RATED VOLTAGE	12 V	12 V	12 V	12 V
MAX POWER	155 W	190 W	230 W	270 W
TOLERANCE	+3 %	+3 %	+3 %	+3 %
OPEN CIRCUIT VOLTAGE	22,40V	21,60V	25,20V	30,80V
SHORT CIRCUIT VOLTAGE	8,57 A	10,84 A	11,19 A	10,82 A
VOLTAGE AT MAX POWER	19,20 V	18,60 V	21,60 V	26,40 V
CURRENT AT MAX POWER	8,08 A	10,22 A	10,65 A	10,23 A
DIMENSIONS (mm)	1400 x 515 x 30	1300 x 670 x 30	1560 x 675 x 35	1900 x 675 x 35
WEIGHT (Kg)	7,7	9,4	11,0	13,4
CELL EFFICIENCY	25,5%	25,5%	25,5%	25,5%

PHOTOVOLTAIC MODULES BLACK SERIES PERC TECHNOLOGY



**SLIM
VERSION**
**WIDTH
530_{mm}**
105W

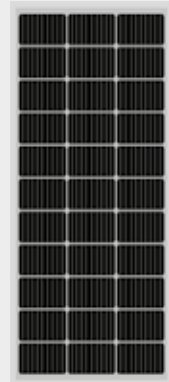
MFB105
105W



**MAX
WIDTH
670_{mm}**
140W
170W

MODEL	MFB105	MFB140	MFB170
PART-NR	215981B	215982B	215983B
TYPE	PERC (Passivated Emitter and Rear Cell)	PERC (Passivated Emitter and Rear Cell)	PERC (Passivated Emitter and Rear Cell)
CELLS NUMBER	36	33	36
RATED VOLTAGE	12 V	12 V	12 V
MAX POWER	105 W	140 W	170 W
TOLERANCE	+3 %	+3 %	+3 %
OPEN CIRCUIT VOLTAGE	23,76 V	21,78V	23,76 V
SHORT CIRCUIT VOLTAGE	5,33 A	7,75 A	8,63 A
VOLTAGE AT MAX POWER	20,88 V	19,14 V	20,88 V
CURRENT AT MAX POWER	5,03 A	7,31A	8,14 A
DIMENSIONS (mm)	1062 x 530 x 30	1116 x 670 x 30	1320 x 670 x 30
WEIGHT (Kg)	6,2	8	9,5

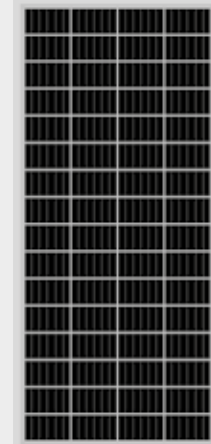
PHOTOVOLTAIC MODULES STANDARD SERIES PERC TECHNOLOGY



**SLIM
WIDTH
530**

140W

MF140S



**MAX
WIDTH
700**

200W

MF200

MODEL	MF140S	MF200
PART-NR	215984	215985
TYPE	PERC (Passivated Emitter and Rear Cell)	PERC (Passivated Emitter and Rear Cell)
CELLS NUMBER	33	64
RATED VOLTAGE	12 V	12 V
MAX POWER	140 W	200W
TOLERANCE	+ -3 %	+ -3 %
OPEN CIRCUIT VOLTAGE	21,78V	21,12 V
SHORT CIRCUIT VOLTAGE	7,76 A	11,42 A
VOLTAGE AT MAX POWER	19,14 V	18,56 V
CURRENT AT MAX POWER	7,32 A	10,78 A
DIMENSIONS (mm)	1345 x 530 x 30	1400 x 704 x 35
WEIGHT (Kg)	7,5	11,6

PHOTOVOLTAIC MODULES - FLEXIBLE SERIES PERC TECHNOLOGY



MFFL150
150W



MFFL190
190W

MODEL	MFFL150	MFFL190
PART-NR	215987A	215987B
TYPE	PERC (Passivated Emitter and Rear Cell)	PERC (Passivated Emitter and Rear Cell)
CELLS NUMBER	33 (210*105)	105 (210*42)
RATED VOLTAGE	12 V	12 V
MAX POWER	150 W	190 W
TOLERANCE	+ -3 %	+ -3 %
OPEN CIRCUIT VOLTAGE	21,78V	23,10 V
SHORT CIRCUIT VOLTAGE	8,32A	9,93 A
VOLTAGE AT MAX POWER	19,14 V	20,30 V
CURRENT AT MAX POWER	7,84A	9,36 A
DIMENSIONS (mm)	1260 x 690 x 3	1620 x 690 x 3
WEIGHT (Kg)	2,3	2,9

PHOTOVOLTAIC MODULES TOPCON SERIES N-TopCon TECHNOLOGY



NEW

ULTRA SLIM
VERSION

WIDTH
450mm

110W

MFBN110S
110W

MODEL	MFBN110S
PART-NR	215981S
TYPE	N-TopCon (n-type Tunnel Oxide Passivated Contact)
CELLS NUMBER	32
RATED VOLTAGE	12 V
MAX POWER	110W
TOLERANCE	+/-3 %
OPEN CIRCUIT VOLTAGE	23,04 V
SHORT CIRCUIT VOLTAGE	5,83 A
VOLTAGE AT MAX POWER	19,84 V
CURRENT AT MAX POWER	5,55 A
DIMENSIONS (mm)	1200 x 450 x 30
WEIGHT (Kg)	5,9

SOME EXAMPLES OF PHOTOVOLTAIC KITS

KIT SMALL 105 BLACK	◆ Code 215685	◆ Photovoltaic Module MFB105 (105W)	◆ Solar charge regulator PRS300	◆ Fixing kits KFPB530	◆ Completed cables kit KT6K-C50
KIT ULTRA SLIM PLUS 110 TOPCON SMART	◆ Code 215681US	◆ Photovoltaic Module MFBN110S (110W)	◆ Solar charge regulator PRM400 (MPPT)	◆ Fixing kits KFPB450	◆ Completed cables kit KT6K-C50
KIT SLIM PLUS 140 STANDARD SMART	◆ Code 215688	◆ Photovoltaic Module MFB140 (140W)	◆ Fixing kits KFPB670	◆ Completed cables kit KT6K-C50	◆ Completed cables kit KT6K-C50
KIT LARGE 200 STANDARD SMART	◆ Code 215693	◆ Photovoltaic Module MF200 (200W)	◆ Solar charge regulator PRM400 (MPPT)	◆ Fixing kits KFPN700	◆ Completed cables kit KT6K-C50
KIT MEDIUM PLUS 140 BLACK SMART	◆ Code 215688B	◆ Photovoltaic Module MFB140 (140W)	◆ Solar charge regulator PRM400 (MPPT)	◆ Fixing kits KFPB670	◆ Completed cables kit KT6K-C50
KIT LARGE 170 BLACK	◆ Code 215689	◆ Photovoltaic Module MFB170 (170W)	◆ Solar charge regulator PRS350 (MPPT)	◆ Fixing kits KFPB670	◆ Completed cables kit KT6K-C50
KIT LARGE 190BC SUPER BLACK SMART	◆ Code 215690BC	◆ Photovoltaic Module MFBC190 (190W)	◆ Solar charge regulator PRM400 (MPPT)	◆ Fixing kits KFPB670	◆ Completed cables kit KT6K-C50

BACK CONTACT

Electrical connections are positioned on the rear side of the cell, eliminating shading on the active surface and maximizing light capture. This technology delivers **high efficiency**, superior performance, and a premium aesthetic, further enhanced by the **Super Black finish**, making it ideal for elegant, design-oriented installations.

PERC

A proven technology that incorporates a special passivation and reflective layer on the rear side of the cell to recover light not absorbed during its first pass. This increases energy production, improves module efficiency, and provides an excellent balance of performance, reliability, and cost-effectiveness.

N-TYPE TOPCON

Next-generation cells featuring highly efficient passivated contacts. They deliver higher energy yield, improved performance at elevated temperatures, and reduced degradation over time, ensuring outstanding efficiency and long-term reliability.

ANODIZED ALUMINUM KIT



QUICK CONNECTORS

2 QUICK CONNECTORS MC4 to connect the latest series of CBE photovoltaic modules.



KT6K-C50

Cable with a cross-section of 4 mm allows very low losses due to voltage drop; specific cable resistant to UV radiation and for outdoor conditions.

- ◆ Cable length 5 m
- ◆ Presence of two quick-connectors
- ◆ KT6 series exits roof ducts complete with a PG16 cable entry with internal gasket set up for the passage of two cables
- ◆ Possibility to purchase separately the KTR2-G and KTR2-F sheath fixing kit for anchoring the cables on the roof



PRS300



PRM350



PRM400



PRM800

NEW



MODEL	PRS300	PRM350
PART-NR	204274	204285
BATTERY RATED VOLTAGE	12V	12V
MAXIMUM VOLTAGE OF THE PHOTOVOLTAIC MODULE IN OPEN CIRCUIT (Voc)	27V	50V
MAX POWER PHOTOVOLTAIC MODULES	300W	300W (32÷40 modules) – 350W (41÷72 modules)
MAXIMUM OUTPUT CURRENT	17A	25A
NUMBER OF PHOTOVOLTAIC MODULES CONNECTIONS	2	2
PERFORMANCE		>95%
BATTERY SELECTOR	3-position dip-switch	3-position dip-switch
NUMBER OF CHARGE LINES	3	4
BATTERY DESULPHATION	YES	Electronic
REVERSE CURRENT BLOCKING PROTECTION	Electronic	YES
REVERSE POLARITY PROTECTION	YES	YES
TEST PANEL CONNECTION	PT 742	PT 742
DIMENSIONS (mm)	115 x 90 H37	150 x 110 H48

MODEL	PRM400
PART-NR	204286
BATTERY RATED VOLTAGE	12V
MAXIMUM VOLTAGE OF THE PHOTOVOLTAIC MODULE IN OPEN CIRCUIT (Voc)	50V
MAX POWER PHOTOVOLTAIC MODULES	350W (32÷40 modules) – 400W (41÷72 modules)
MAXIMUM OUTPUT CURRENT	28A
NUMBER OF PHOTOVOLTAIC MODULES CONNECTIONS	2
PERFORMANCE	>95%
BATTERY SELECTOR	4-position dip-switch
NUMBER OF CHARGE LINES	8
BATTERY DESULPHATION	Electronic
REVERSE CURRENT BLOCKING PROTECTION	YES
REVERSE POLARITY PROTECTION	YES
TEST PANEL CONNECTION	PT 742
SELF-CONSUMPTION	0A (switches off automatically in the absence of sunlight)
AUTOMATIC SHUTDOWN	In the absence of sunlight
DIMENSIONS (mm)	150 x 110 H48

MODEL	PRM800
PART-NR	204292
RATED VOLTAGE	12V / 24V
MAXIMUM OPEN-CIRCUIT VOLTAGE OF THE PHOTOVOLTAIC MODULE (Voc)	100V
MAXIMUM PHOTOVOLTAIC POWER	800W with 12V battery 1600W with 24V battery
MAXIMUM OUTPUT CURRENT	60A
NUMBER OF PHOTOVOLTAIC INPUTS	1
EFFICIENCY	>97%
NUMBER OF CHARGE OUTPUTS	5
CONNECTIONS	up to 16mm²
BATTERY REVERSE CURRENT PROTECTION	YES
PHOTOVOLTAIC REVERSE CURRENT PROTECTION	YES
THERMAL PROTECTION	YES
OPERATING TEMPERATURE	-20 +55°C
CONNECTIVITY	Bluetooth
DIMENSIONS (mm)	190 x 230 H50
WEIGHT (g)	2863
PROTECTION RATING	IP54

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MFFL150
MFFL190

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TOPCON SERIES



MFBN110S

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