

PHOTOVOLTAIC MODULES AND KIT

◆ BLACK SERIES



MFB105
MFB140
MFB170



MFBC190

PERC CELLS

BACK CONTACT

◆ STANDARD SERIES



MF110
MF140S
MF145
MF175
MF200

PERC CELLS

◆ FLEXIBLE SERIES



MFFL150
MFFL190

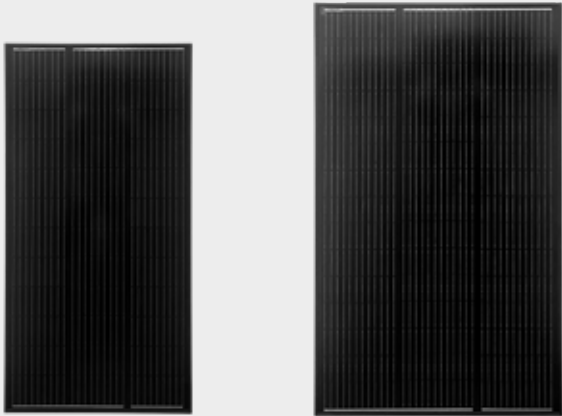
PERC CELLS

Member of **DEXKO**
GLOBAL

ALKO VEHICLE TECHNOLOGY ELECTRONICS

www.cbe.it www.nordelettronica.it

CBE PHOTOVOLTAIC MODULES BLACK SERIES



MFB105 105W

MFB140 140W

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



MFB170 170W

MFBC190 190W

MODEL	MFB170	MFBC190
CODE	215983B	215986B
TYPE	PERC (Passivated Emitter and Rear Cell)	PERC BACK CONTACT
CELLS NUMBER	36	60
RATED VOLTAGE	12 V	12 V
MAX POWER	170 W	190 W
TOLERANCE	+3 %	+3 %
OPEN CIRCUIT VOLTAGE	23,76 V	21,60V
SHORT CIRCUIT VOLTAGE	8,63 A	10,84 A
VOLTAGE AT MAX POWER	20,88 V	18,60 V
CURRENT AT MAX POWER	8,14 A	10,22 A
DIMENSIONS (mm)	1320 x 670 x 30	1300 x 670 x 30
WEIGHT (Kg)	9,5	9,4

CBE PHOTOVOLTAIC MODULES STANDARD SERIES



MF110 110W

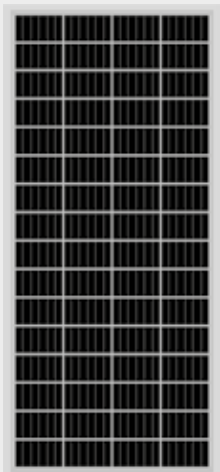
MODELLO	MF110
CODICE	215981
TIPO	PERC (Passivated Emitter and Rear Cell)
NUMERO DI CELLE	36
TENSIONE NOMINALE	12 V
POTENZA MASSIMA	110 W
TOLLERANZA	+3 %
TENSIONE A CIRCUITO APERTO	23,76 V
CORRENTE DI CORTO CIRCUITO	5,58 A
TENSIONE ALLA MAX POTENZA	20,88 V
CORRENTE ALLA MAX POTENZA	5,27 A
DIMENSIONI	1062 x 530 x 30
PESO (Kg)	6,2



MF140S 140W

MODELLO	MF140S
CODICE	215984
TIPO	PERC (Passivated Emitter and Rear Cell)
NUMERO DI CELLE	33
TENSIONE NOMINALE	12 V
POTENZA MASSIMA	140 W
TOLLERANZA	+3 %
TENSIONE A CIRCUITO APERTO	21,78V
CORRENTE DI CORTO CIRCUITO	7,76 A
TENSIONE ALLA MAX POTENZA	19,14 V
CORRENTE ALLA MAX POTENZA	7,32 A
DIMENSIONI	1345 x 530 x 30
PESO (Kg)	7,5

CBE PHOTOVOLTAIC MODULES STANDARD SERIES



MF200 200W

MODEL	MF200
CODE	215985
TYPE	PERC (Passivated Emitter and Rear Cell)
CELLS NUMBER	64
RATED VOLTAGE	12 V
MAX POWER	200W
TOLERANCE	+ -3 %
OPEN CIRCUIT VOLTAGE	21,12 V
SHORT CIRCUIT VOLTAGE	11,42 A
VOLTAGE AT MAX POWER	18,56 V
CURRENT AT MAX POWER	10,78 A
DIMENSIONS (mm)	1400 x 704 x 35
WEIGHT (Kg)	11,6

CBE PHOTOVOLTAIC MODULES FLEXIBLE SERIES



MFFL150 150W

MFFL190 190W

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

KIT BLACK SERIES

KIT SMALL 105 BLACK

- ◆ Code 215685
- ◆ Photovoltaic
Module
MFB105 (105W)
- ◆ Solar charge
regulator
PRS300
- ◆ Fixing kits
KFPB530
- ◆ Completed
cables kit
KT6K-C50

KIT SMALL PLUS 105 BLACK

- ◆ Code 215686
- ◆ Photovoltaic
Module
MFB105 (105W)
- ◆ Solar charge
regulator
PRM350
(MPPT)
- ◆ Fixing kits
KFPB530
- ◆ Completed
cables kit
KT6K-C50

KIT MEDIUM 140 BLACK

- ◆ Code 215687
- ◆ Photovoltaic
Module
MFB140 (140W)
- ◆ Solar charge
regulator
PRS300
- ◆ Fixing kits
KFPB670
- ◆ Completed
cables kit
KT6K-C50

KIT MEDIUM PLUS 140 BLACK

- ◆ Code 215688
- ◆ Photovoltaic
Module
MFB140 (140W)
- ◆ Solar charge
regulator
PRS350 (MPPT)
- ◆ Fixing kits
KFPB670
- ◆ 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)
- ◆ Regolatore
solare
PRM350
(MPPT)
- ◆ Fixing kits
KFPB670
- ◆ Completed
cables kit
KT6K-C50

KIT LARGE 170 BLACK SMART

- ◆ Code 215689B
- ◆ Photovoltaic
Module
MFB170 (170W)
- ◆ Solar charge
regulator
PRM400 (MPPT)
- ◆ Fixing kits
KFPB670
- ◆ Completed
cables kit
KT6K-C50



KIT LARGE 190BC BLACK SMART

- ◆ Code 215690BC
- ◆ Photovoltaic
Module
MFBC190
(190W)
- ◆ Solar charge
regulator
PRM400 (MPPT)
- ◆ Fixing kits
KFPB670
- ◆ Completed
cables kit
KT6K-C50



KIT STANDARD SERIES

KIT SMALL 110 STANDARD	◆ Code 215680	◆ Photovoltaic Module MF110 (110W)	◆ Solar charge regulator PRS300	◆ Fixing kits KFPN530	◆ Completed cables kit KT6K-C50
KIT SMALL PLUS 110 STANDARD	◆ Code 215681	◆ Photovoltaic Module MF110 (110W)	◆ Solar charge regulator PRM350 (MPPT)	◆ Fixing kits KFPN530	◆ Completed cables kit KT6K-C50
KIT SLIM PLUS 140 STANDARD	◆ Code 215691SL	◆ Photovoltaic Module MFB140 (140W)	◆ Solar charge regulator PRM400 (MPPT) 	◆ Fixing kits KFPN530	◆ Completed cables kit KT6K-C50
KIT MEDIUM 145 STANDARD	◆ Code 215682	◆ Photovoltaic Module MF145 (145W)	◆ Solar charge regulator PRS300	◆ Fixing kits KFPN670	◆ Completed cables kit KT6K-C50
KIT MEDIUM PLUS 145 STANDARD	◆ Code 215683	◆ Photovoltaic Module MF145 (145W)	◆ Solar charge regulator PRM350 (MPPT)	◆ Fixing kits KFPN670	◆ Completed cables kit KT6K-C50
KIT LARGE 175 STANDARD	◆ Code 215684	◆ Photovoltaic Module MF175 (175W)	◆ Solar charge regulator PRM350 (MPPT)	◆ Fixing kits KFPN670	◆ Completed cables kit KT6K-C50
KIT LARGE 200 STANDARD	◆ Code 215693	◆ Photovoltaic Module MFBC190 (190W)	◆ Solar charge regulator PRM400 (MPPT) 	◆ Fixing kits KFPN700	◆ Completed cables kit KT6K-C50

PHOTOVOLTAIC MODULES CBE

Made with **PERC (Passivated Emitter and Rear Cell)** solar cells guarantee a higher level of conversion efficiency and, at the same time, additional technical advantages such as a lower temperature coefficient and, therefore, better performance.

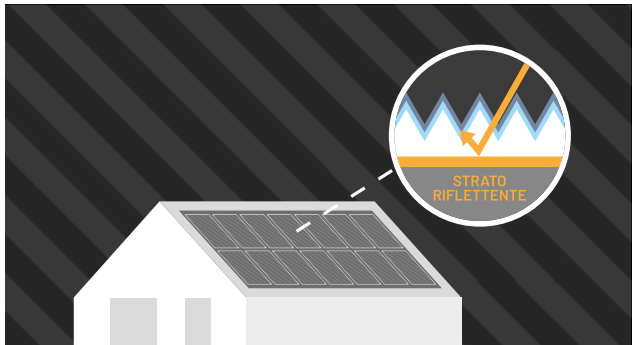


QUICK CONNECTORS

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



ANODIZED ALUMINUM KIT



PRS300



PRM350



PRM400

NEW


MODEL	PRS300	PRM350	PRM400
CODE	204274	204285	204286
RATED VOLTAGE	12V	12V	12V
MAXIMUM POWER	300W	300W (32÷40 cells) – 350W (41÷72 cells)	350W (32÷40 cells) – 400W (41÷72 cells)
MAX POWER PHOTOVOLTAIC MODULES	2	2	2
PERFORMANCE		>95%	>95%
AUTOMATIC SHUTDOWN	In the absence of sunlight	In the absence of sunlight	In the absence of sunlight
END-OF-CHARGE VOLTAGE	14,1V (A) - 14,3V (B) - 14,7V (C)	14,1V (A) - 14,4V (B) - 14,7V (C) - 14,6V (Li)	-
FLOAT VOLTAGE	13,5V(A) – 13,8V(B) – 13,8V(C)	13,5V (A) - 13,8V (B) - 13,8V (C) - 13,8V (Li)	-
BATTERY TYPE SELECTOR	3 position dip-switch	3 position dip-switch	4 position dip-switch
NUMBER OF CHARGE LINES	3	4	8
BATTERY DESULPHATION	YES	YES	YES
REVERSE CURRENT BLOCKING PROTECTION	Electronic	Electronic	Electronic
REVERSE POLARITY PROTECTION	YES	YES	YES
TEST PANEL CONNECTION	PT 742	PT 742	PT 742
DIMENSIONS (mm)	115 x 90 H37	150 x 110 H48	150 x 110 H48

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

