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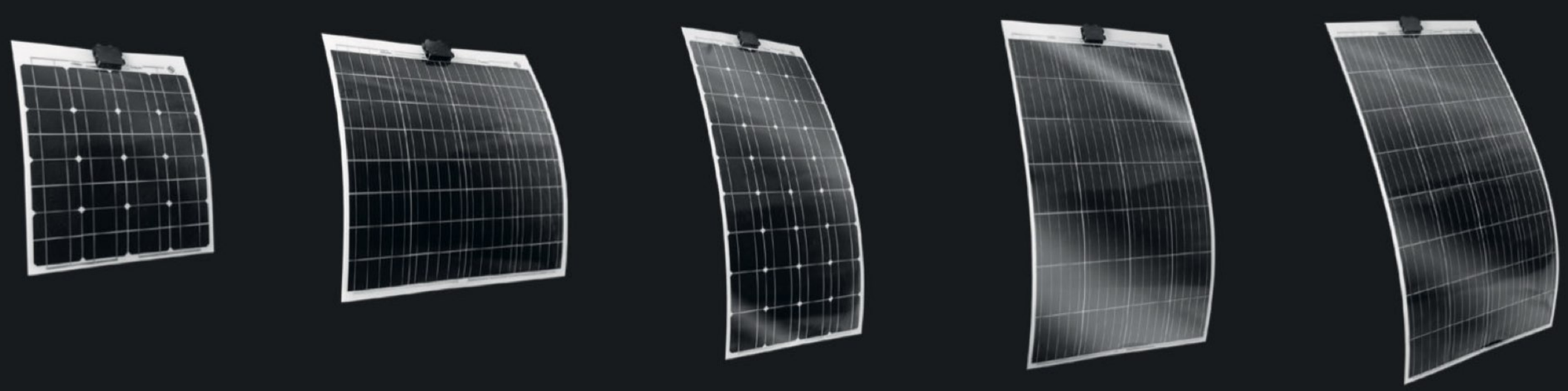
Sun Driven Innovation

Solar panels for customized **on and off grid** applications,
ultralight, **thin** and **flexible**, designed and produced in Italy

Technical data of the products 2025



HF-45 HF-82 HF-100 HF-145 HF-165

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FEATURES OF OUR PV PANELS - 2025

	HF Standard Line						
	HF 45	HF 82	HF 100	HF 145	HF 165	HF 185	HF 205
Peak power, Pmax (Wp)	45	82	100	145	165	185	205
Tolerance (%)	up to 5% only positive	up to 5% only positive	up to 5% only positive	up to 5% only positive	up to 5% only positive	up to 5% only positive	up to 5% only positive
Open circuit Voltage, Voc (V)	20,2	20,9	22,7	18,4	21,0	23,6	25,9
Short- circuit current, Isc (A)	2,9	4,8	5,7	9,7	9,7	9,7	9,7
Voltage at Pmax (Vmp) (V)	17	18	19,1	15,8	17,9	20,2	22,2
Current at Pmax, Imp (A)	2,7	4,56	5,3	9,2	9,2	9,2	9,2
Isc Temperature coefficient α (%/°C)	0,05	0,06	0,05	0,06	0,06	0,06	0,05
Voc, Temperature coefficient β (%/°C)	-0,31	-0,36	-0,31	-0,36	-0,36	-0,36	-0,35
Pmax Temperature coefficient (%/°C)	-0,41	-0,36	-0,41	-0,36	-0,36	-0,36	-0,43
Fill factor (FF) (%)	0,78	0,82	78,4	0,81	0,81	0,81	0,81
Working temperature (°C)	-40 to +80	-40 to +80	-40 to +80	-40 to +80	-40 to +80	-40 to +80	da -40 a +80
NOCT (°C)	47,5	47,5	47,5	47,5	47,5	47,5	47,5
PV panel material	UVA resistent Plastic Polimer	UVA resistent Plastic Polimer	UVA resistent Plastic Polimer	UVA resistent Plastic Polimer	UVA resistant Plastic Polymer	UVA resistant Plastic Polymer	UVA resistent Plastic Polimer
Size (bxh) (m)	0,536 x 0,604	0,671 x 0,741	0,536 x 1,231	0,671 x 1,215	0,671 x 1,376	0,671 x 1,537	0,671x1,695
Thickness (mm)	1,7	1,7	1,7	1,7	1,7	1,7	1,7
Weight (kg)	0,8	1,2	1,6	2	2,3	2,6	2,8
Maximum system Voltage (V)	600	600	600	600	600	600	600
Photovoltaic cells	n.16 mono Si 125x125 2BB cut 1/2	n.16 m-Si 158,75x158,75 5BB cut 1/2	n.36 mono Si 125x125 2BB	n.28 m-Si 158,75x158,75 5BB	n.32 m-Si 158,75x158,75 5BB	n.36 m-Si 158,75x158,75 5BB	n.40 m-Si 158,75x158,75 5BB
Output terminal	1m Cables with MC4 connectors	1m Cables with MC4 connectors	1m Cables with MC4 connectors	1m Cables with MC4 connectors	1m Cables with MC4 connectors	1m Cables with MC4 connectors	1m Cables with MC4 connectors
Bypass Diode (A)	1 inside JB, 12A	1 inside JB, 12A	2 inside JB, 12A	2 inside JB, 12A	2 inside JB, 12A	2 inside JB, 12A	2 inside JB, 12A

	HF Business Line	HF Stripe Line			HF Back Contact Line	
	HFs 103	HFs 22	HFs 45	HFs 82	HFsp 96	HFsp 124
Peak power, Pmax (Wp)	103	22	45	82	96	124
Tolerance (%)	up to 5% only positive	up to 5% only positive	up to 5% only positive	up to 5% only positive	up to 5% only positive	up to 5% only positive
Open circuit Voltage, Voc (V)	13,1	20,2	20,2	20,9	19,9	25,6
Short- circuit current, Isc (A)	9,7	1,40	2,9	4,8	6,1	6,1
Voltage at Pmax (Vmp) (V)	11,2	17,0	17	18	16,9	21,8
Current at Pmax, Imp (A)	9,2	1,30	2,7	4,56	5,7	5,7
Isc Temperature coefficient α (%/°C)	0,06	0,05	0,05	0,06	0,06	0,06
Voc, Temperature coefficient β (%/°C)	-0,36	-0,31	-0,31	-0,36	-0,24	-0,24
Pmax Temperature coefficient (%/°C)	-0,36	-0,41	-0,41	-0,36	-0,27	-0,27
Fill factor (FF) (%)	0,81	0,78	0,78	0,82	0,80	0,80
Working temperature (°C)	-40 to +80	-40 to +80	-40 to +80	-40 to +80	-40 to +80	-40 to +80
NOCT (°C)	47,5	47,5	47,5	47,5	47,5	47,5
PV panel material	UVA resistant Plastic Polymer	UVA resistant Plastic Polymer	UVA resistent Plastic Polimer	UVA resistent Plastic Polimer	UVA resistant Plastic Polymer	UVA resistant Plastic Polymer
Size (bxh) (m)	0,350 x 1,697	0,292 x 0,620	0,282 x 1,120	0,35 x 1,392	0,536 x 0,977	0,536 x 1,231
Thickness (mm)	1,7	1,7	1,7	1,7	1,7	1,7
Weight (kg)	1,5	0,5	0,8	1,2	1,3	1,6
Maximum system Voltage (V)	600	600	600	600	600	600
Photovoltaic cells	n.20 m-Si 158,75x158,75 5BB	n.8 mono Si 125x125 2BB, cut 1/4	n.16 m-Si 125x125 2BB, cut 1/2	n.16 mono Si 158,75x158,75 5BB, cut 1/2	n. 28 Sunpower 125x125	n. 36 Sunpower 125x125
Output terminal	1m Cables with MC4 connectors	Cables with cigarette lighter socket	1m Cables with MC4 connectors	1m Cables with MC4 connectors	1m Cables with MC4 connectors	1m Cables with MC4 connectors
Bypass Diode (A)	1 inside JB, 12A	No	1 inside JB, 12A	1 inside JB, 12A	2 inside JB, 12A	2 inside JB, 12A

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