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Solar Panel Guide Specification Data Sheet

SoLink Hdemia srl

HCF300M

HCF300M

Also available on the web at
EnergyPal.com/solink-hdemia-srl-solar-panels/hcf300m



FULL BLACK

Cellafredda is the only completely black panel between SoLink's products



BETTER WHEN FACING SOUTH

Thanks to monocrystalline cells Cellafredda works better when facing south

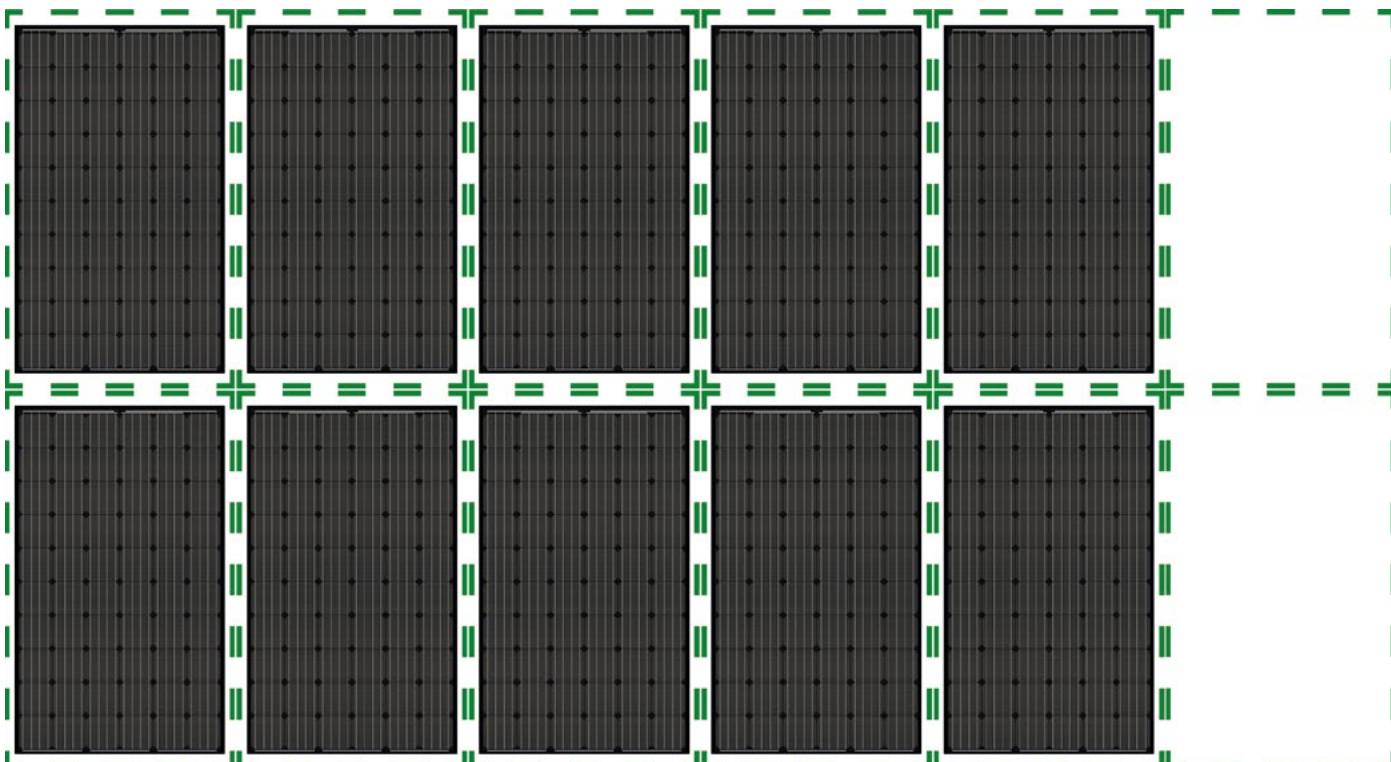


-16% OF SURFACE WITH THE SAME POWER

With Cellafredda's 300Wp you can reduce the installation surface almost 16% or less compared with standard 250 watts PV size

Cellafredda is currently the most powerful 60 cells Hybrid PV. As a result of its electric 300Wp it can reach a total power higher than 1300w with a yield up to 80%(STC). In this case our Hybrid Technology melts with monocrystalline high efficiency cells creating an high performances product. Completely black is perfect either to small or big solar fields since it reduces installation's surface up to 16% less

*Compared with Hybrid Design and Factory Series 250-255Wp



Cellafredda solar field surface compared with standard 250 Wp PV

Electrical Data (STC) HP245/..		HCF300M
Open circuit voltage (VOC)	W	300
Pmax voltage (Vmp)	A	9,90
Short circuit current (Isc)	V	40,4
Pmax current (Ipm)	A	9,50
Max Power (Pmax)	V	31,6
Cell efficiency	%	20,9
Module efficiency	%	18,4
Tolerance	W	+/- 5
Series fuse rating	A	18
Max Voltage	V	1000

Thermal Data		
Rated thermal power	W	1020
Opening surface	m2	1,45
Max temperature	°C	83
Max flow rate	lit/min	2
Opening area flash efficiency	η	0,588
Absorber area flash efficiency	η	0,583
Loss coefficient (Opening area)	a1	15,529 Wm-2K-1
	a2	0,010 Wm-2K-2
Loss coefficient (Absorber area)	a1	16,987 Wm-2K-1
	a2	0,011 Wm-2K-2

General Data	
Cell Type	Monocrystalline
Glass thickness	3,2 mm Tempered Anti-reflective
Frame	Anodized aluminium/painted
Juntion Box	IP 67 rating, 3 Bypass diodes
Output cables	E317230-C PV 4 mm2

Mechanical characteristics	
Hail test	25mm-23m/s
Max Load	5400 Pa
Cells number	60 (156x156mm)
Weight	28 kg

Dimensions (mm)		
Width	L	991
Height	H	1649
Depth	P	35

Temperature Coefficient	
NOCT	44°C
Current temperature coefficient	+0,046 %K
Voltage temperature coefficient	-0,30 %K
Power temperature coefficient	-0,39 %K