

Solar Balcony Kit



Solar Balcony Kit

2x FU190M NOVA + HMS 350 W

The Plug & Play kit makes your balcony produce energy

- Built-in WiFi gateway for control via app
- Plug & Play system up to 350 W
- CEI-021 certified microinverter for network connection
- Ideal for installations on balconies, terraces, gardens

2X PV MODULES FU190M NOVA

ELECTRICAL DATA		
MODEL	FU 190 M Nova	
<i>Standard Test Conditions STC: 1000 W/sgm - AM 1.5 - 25 °C - tolerance <3%</i>		
Module power (Pmax)	W	190
Open circuit voltage (Voc)	V	25.84
Short circuit current (Isc)	A	9.14
Maximum power voltage (Vmpp)	V	22.04
Maximum power current (Impp)	A	8.62
Module efficiency	%	19.16
<i>Nominal Module Operating Temperature NMOT: 800 W/mq - T=45 °C - AM 1.5</i>		
Module power (Pmax)	W	152
Open circuit voltage (Voc)	V	25.55
Short circuit current (Isc)	A	7.31
Maximum power voltage (Vmpp)	V	22.04
Maximum power current (Impp)	A	6.90
TEMPERATURE RATINGS		
Temperature coefficient Isc	%/°C	+0.05
Temperature coefficient Voc	%/°C	-0.29
Temperature coefficient Pmax	%/°C	-0.34
NMOT *	°C	45
Operating temperature	°C	-40 to +85

* Nominal Operating Cell Temperature

MECHANICAL SPECIFICATIONS	
Dimensions	1250 x 763 x 30 mm
Weight	10.2 kg
Glass	3.2 mm, high transmission, tempered glass
Cell encapsulation	EVA (Ethylene Vinyl Acetate)
Cells	72 monocrystalline PERC cells 156 x 156 mm
Backsheet	Composite multilayer film - White
Frame	ASilver aluminium frame with mounting and drainage holes
Junction box	Certified according to IEC 62790, IP 68 approved
Cables	Lenght 900 mm, assembled with MC4-combinable plugs

Fixing structure not included.

Check with a professional the most suitable structure.

HMS-350 W MICRO INVERTER

ELECTRICAL DATA		
MODEL	HMS-350 W	
Module power	W	280-470+
Maximum input voltage	V	60
MPPT voltage range	V	16-60
Start-up voltage	V	22
Maximum input current	A	11.5
Maximum input short circuit current	A	1x15
Number of MPPTs		1
Number of inputs per MPPT		1
Rated output power	W	350
Rated output current	A	1.52
Nominal output voltage/range ¹	V	230/180-275
Nominal frequency/range ¹	Hz	50/45-55
Power factor (adjustable)		> 0.99 default
Total harmonic distortion	%	< 3
Maximum unit per branch ²		14
CEC peak efficiency	%	96.70
CEC weighted efficiency	%	96.50%
Nominal MPPT efficiency	%	99.80%
Nighttime power consumption	mW	< 50
APPEARANCE AND TECHNICAL FEATURES		
Ambient temperature range	-40°C to +65°C	
Dimensions	182 mm x 164 mm x 29.5 mm	
Net amount	1.98 kg	
Waterproof grade	Outdoor Ip67 Nema6	
Heat dissipation mode	Natural convection (no fans)	
Communication mode	2.4 GHz Proprietary RF (Nordic)	
Type of isolation	Galvanically Isolated HF Transformer	
Monitoring	S-Miles Cloud ³	
Compliance	VDE-AR-N 4105: 2018, EN 50549-1: 2019, VFR 2019, IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4, IEC/EN 61000-3-2/-3	

*1 Nominal voltage/frequency range can vary depending on local requirements.

*2 Refer to local requirements for exact number of microinverters per branch.

*3 Hoymiles Monitoring System.

