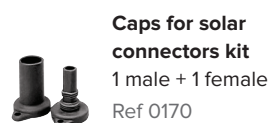
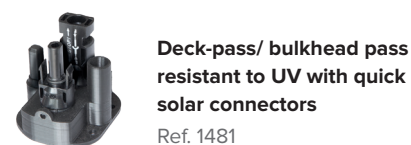




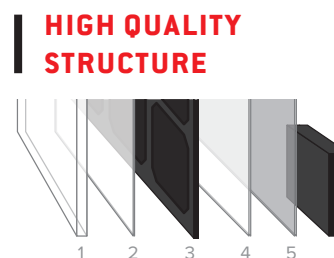

		UNISUN 50.12 MS	UNISUN 100.12 MS	UNISUN 150.12 MS
		Ref 1320	Ref 0552	Ref 0569
Electrical performance				
Max. power (Pm)*		50 W	100 W	150 W
Power tolerance*		0/+3%	0/+3%	0/+3%
Operating voltage		12 V	12 V	12 V
Technology				
		mono/slim	mono/slim	mono/slim
Voltage at max. power (Vmp)*		20 V	20 V	20 V
Intensity at max. power (Imp)*		2,5 A	5 A	7,5 A
Voltage in open circuit (Voc)*		23,6 V	23,6 V	23,6 V
Intensity in short circuit (Icc/ ISC)*		2,75 A	5,5 A	8,25 A
Cell efficiency		21%	21%	21%
Module efficiency*		13,23%	14,49%	14,02%
Maximum battery charging power***				
12V Battery	with PWM controller	2 A	4 A	6 A
	with MPPT controller	3,26 A	6,25 A	9,78 A
Temperature characteristics				
Operating temperature		-40/+85°C	-40/+85°C	-40/+85°C
NOCT / TUC**		45 ±2°C	45 ±2°C	45 ±2°C
Temperature coefficient	Pm	-0,48%/°C	-0,48%/°C	-0,48%/°C
	Voc	-0,34%/°C	-0,34%/°C	-0,34%/°C
	Icc	0,037%/°C	0,037%/°C	0,037%/°C
Mechanical characteristics				
Front structure		ETFE	ETFE	ETFE
Black backsheet design		yes	yes	yes
Back structure		fiberglass	fiberglass	fiberglass
Possible bending		< 5°	< 5°	< 5°
Cable length (with connectors)		900 mm	900 mm	900 mm
Fixing eyelet (marine bronze)		×4	×4	×8
Module dimensions		712×560×20	1110×695×20	1580×695×20
Module weight		2,5 kg	5,2 kg	7,5 kg
Product warranty				
Period		1 year	1 year	1 year

*According to standard test conditions (STC): irradiance 1000 W/m², AM= 1.5, cell temperature 25°C.
 ** Nominal Operating Cell Temperature: Irradiance 800 W/m², wind speed 1 m/s, ambient temperature 25°C.
 ***According NIMOT standard- Nominal Module Operating Temperature (=test condition in real situation) : irradiance 800W/m², ambiante temperature 20°C, wind speed 1 m/s







HIGH QUALITY COATING	
Entry-level price range	UNISUN MS
	
PET	ETFE
Light transmission	
90-93%	95%
Antireflexion properties	
+	+++
Self-cleaning properties	
+	+++
Corrosion resistant	
+	+++
Resistant to a saline environment	
+	+++

HIGH QUALITY JUNCTION BOX	
Entry-level price range	UNISUN MS
	
TÜV Certification	
rare	✓
Cell protection from surges (hot-spots)	
no	✓
Mechanical resistance	
+	+++
Waterproof	
+	+++
Shape	
not streamlined	streamlined



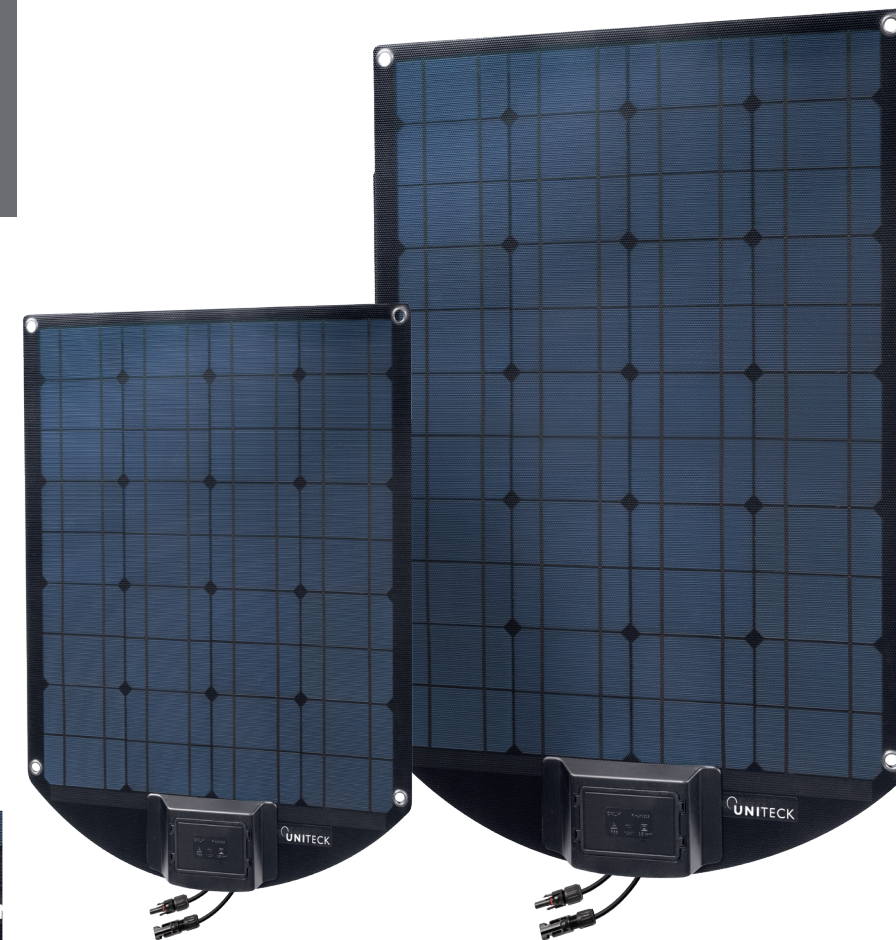
1. High quality ETFE plastic
2. EVA Resin
3. Highly efficient cells
4. EVA resin
5. PET + fiberglass
6. TÜV certified junction box



-  High efficiency cells
-  High resistance plastic, anti-corrosion, high transmissibility of light
-  TÜV certified waterproof junction box with hot-spot protection, reverse current
-  Exceptional output even under weak light

UNISUN MS slim solar panels

LIGHT AND MOBILE



QUICK CONNECTORS + PROTECTION

For a safe use, Unisun MS is equipped with a solar connector (waterproof + electrical transfer quality), and with an anti-reverse diode integrated in the junction box (protection for reverse current battery ->panel)



UNISUN MS is the high performance monocrystalline slim panel range (possible bending up to 5° max.) ideal for leisure (boating, campervan), off-grid or nomad activities.

Their highly efficient monocrystalline cells guarantee exceptional output even under weak light or extreme heat.

Their multi-layer structure with a high-quality coating on the front (ETFE), and fiberglass on the back, provides the best performance on the market regard to electrical performance (high transmissibility plastic with self-cleaning properties), mechanical resistance and corrosion resistance (ideal for boating).

With a TÜV certified junction box, UNISUN MS is protected against all cell overvoltage or hot spots (anti-spot protection) due to grey areas or cells getting masked, very common in boating (sailing ropes etc...). Its streamlined shape minimises wind resistance and avoids ropes from getting stuck making it ideal for boating use.

Light and space-saving UNISUN MS can be placed or fixed with rigging or bungee ropes thanks to their integrated eyelets (diam.10).

Quality guaranteed by Uniteck
Made in P.R.C.

