

# LS 200 MiNi

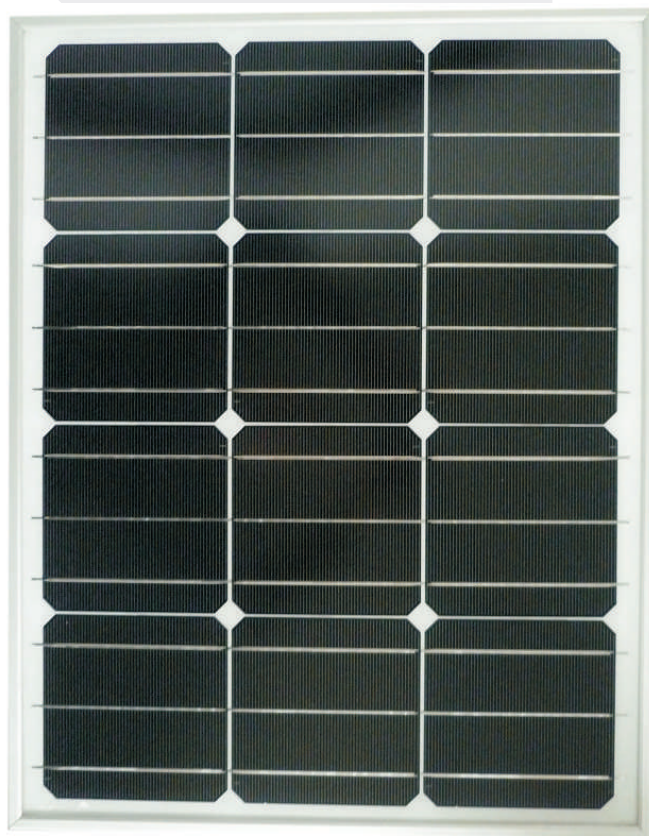
90 Wp	115 Wp	125 Wp	150 Wp	100 Wp	120 Wp	130 Wp	150 Wp
Polycrystalline panels				Monocrystalline panels			

LS MiNi photovoltaic panels are designed for areas without the possibility to use the distribution network. These panels are used in remote locations without electrical connections. They are used as one of the best power source for street lighting, telecommunications, transportation systems, yachts, houseboats, mobile homes, etc.

The standard LS MiNi panels range includes monocrystalline and polycrystalline modules with power output from 45 W to 150 W.

## Advantages of LS MiNi

- Silicon cells – 3-BUS technology
- Quality materials
- High-standard processing
- Certified quality materials
- Safety solar glass with high light-transmission factor
- Cellular frame profile with molded edges ensures high solidity and endurance even under extreme conditions
- Junction boxes with bypass diodes
- Maximum load for panels rating at - 5400 Pa
- Flexible assembly



# LS 200 MiNi

	LS90P	LS115P	LS125P	LS150P	Polycrystalline panels
Maximum power (Pm)	90 Wp	115 Wp	125 Wp	150 Wp	
Maximum power voltage (Um)	12,25 V	15,38 V	16,52 V	19,03 V	
Maximum power current (Im)	7,58 A	7,59 A	7,68 A	7,89 A	
Open circuit voltage (Uoc)	14,59 V	18,41 V	19,71 V	22,60 V	
Short circuit current (Isc)	8,02 A	8,09 A	8,14 A	8,33 A	
Max. system voltage (V)	1000	1000	1000	1000	
Operating temperature (°C)	-40 ~+85	-40 ~+85	-40 ~+85	-40 ~+85	
Power tolerance (%)	+/- 5%	+/- 5%	+/- 5%	+/- 5%	
Solar cells	polycrystalline 156 x 156 mm	polycrystalline 156 x 156 mm	polycrystalline 156 x 156 mm	polycrystalline 156 x 156 mm	
Connection lengthwise cells	6 x 4	6 x 5	4 x 8	6 x 6	
Dimensions ( X x Y x Z ) mm	693x1010x42	852x1010x42	693x1329x42	1010x1010x42	
Weight	10 kg	11 kg	11,5 kg	12 kg	
Warranty	5 year	5 year	5 year	5 year	
Power warranty	10 year min. 90% 20 year min. 80%	10 year min. 90% 20 year min. 80%	10 year min. 90% 20 year min. 80%	10 year min. 90% 20 year min. 80%	

Monocrystalline panels	LS100M	LS120M	LS130M	LS150M	
	Maximum power (Pm)	100 Wp	120 Wp	130 Wp	150 Wp
	Maximum power voltage (Um)	12,50 V	15,40 V	16,70 V	18,54 V
	Maximum power current (Im)	7,98 A	7,85 A	7,79 A	8,12 A
	Open circuit voltage (Uoc)	14,99 V	18,78 V	20,02 V	22,59 V
	Short circuit current (Isc)	8,71 A	8,67 A	8,68 A	8,71 A
	Max. system voltage (V)	1000	1000	1000	1000
	Operating temperature (°C)	-40 ~+85	-40 ~+85	-40 ~+85	-40 ~+85
	Power tolerance (%)	+/- 5%	+/- 5%	+/- 5%	+/- 5%
	Solar cells	monocrystalline 156 x 156 mm	monocrystalline 156 x 156 mm	monocrystalline 156 x 156 mm	monocrystalline 156 x 156 mm
	Connection lengthwise cells	6 x 4	6 x 5	4 x 8	6 x 6
	Dimensions ( X x Y x Z ) mm	693x1010x42	852x1010x42	693x1329x42	1010x1010x42
	Weight	10 kg	11 kg	11,5 kg	12 kg
	Warranty	5 year	5 year	5 year	5 year
	Power warranty	10 year min. 90% 20 year min. 80%	10 year min. 90% 20 year min. 80%	10 year min. 90% 20 year min. 80%	10 year min. 90% 20 year min. 80%

## System integration parameters

Outdoor temperature	- 45°C až + 45°C	Back sheet material	PET Polyester sheet multiply
Operating temperature	- 45°C až + 85°C	Junction box	IP 65, 3 Bypass diode
Temperature coefficient PN	- 0,43 % / K	Junction cable	2x1000mm, 4mm <sup>2</sup> , Mc4 connector
TK V <sub>oc</sub>	- 0,35 % / K	Frame	Aluminious cavity profile, anodized
TK I <sub>sc</sub>	0,05 % / K	Mechanical loading	Loading pressure tested up to 5,4 kN/m <sup>2</sup>
NOCT	47°C	System integration	max. system voltage 1000 V
Panel	Glass sheets Laminate	Reverse current	max. External power < Uoc
Encapsulation	EVA	Reverse current protection	string protection max. I < 16 A
Connection material	Silicone	Output tolerance	measurement tolerance - simulation test +/- 3%
Temper solar glass	3,2 mm	Panel protection	IP 65

