## **TECHNICAL DATA** SUNBOX 5.0





SOLAR PLUG & PLAY



DOMESTIC INSTALLATION



LI-ION BATTERIES



BACK-UP SYSTEM / PEAK SHAVING



IMPROVES CUSTOMER SATISFACTION



ALL IN ONE



REDUCED INSTALLATION **TIMES** 

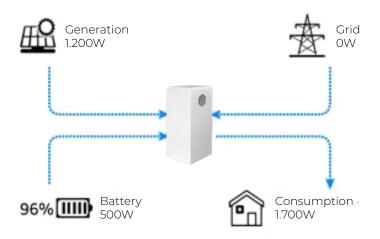
## **TECHNICAL DATA**

Max. photovoltaic field power PV voltage range 100-500 V  MPPT working range 125-425V  Starting voltage 150V  Independent MPPT 2  Maximum current per MPPT 13A  Category DC surges II  AC Output (Self-consumption with grid) Maximum power Rated output voltage 230V Rated output frequency 50/60Hz  AC Output (Self-consumption with grid/Off-grid) Nominal power Maximum power S500W Rated output voltage 230V Rated output self-consumption with grid/Off-grid) Nominal power S500W Rated output voltage Rated output frequency S50/60Hz  Batteries data Capacity From 5,1kWh to 10,3kWh Usable capacity From 4,60kWh to 9,20kWh DoD Qcells Metal Can Type of technology LiFePO <sup>4</sup> Nominal battery voltage S1,2V Max. Charge/discharge current S0A/100A BMS communication CAN  DC protections (per MPPT) 4 x Fuse holder and fuse 1000Vdc/15A Integrated	Model	SunBox Series 5.0
PV voltage range 100-500 V  MPPT working range 125-425V  Starting voltage 150V  Independent MPPT 2  Maximum current per MPPT 13A  Category DC surges II  AC Output (Self-consumption with grid)  Maximum power 11500W  Rated output voltage 230V  Rated output frequency 50/60Hz  AC Output (Self-consumption with grid/Off-grid)  Nominal power 5500W  Maximum power 5500W  Rated output voltage 230V  Rated output voltage 230V  Rated output frequency 50/60Hz  Batteries data  Capacity From 5,1kWh to 10,3kWh  Usable capacity From 4,60kWh to 9,20kWh  DoD 90%  Cycles at 90% DoD >6000  Cells Metal Can  Type of technology LiFePO4  Nominal battery voltage 51,2V  Max. Charge/discharge current 50A/100A  BMS communication CAN  DC protections (per MPPT)  4 x Fuse holder and fuse 1000Vdc/15A Integrated  AC protections  Magnetothermic Grid Integrated	Photovoltaic panels data	
MPPT working range 125-425V  Starting voltage 150V  Independent MPPT 2  Maximum current per MPPT 13A  Category DC surges II  AC Output (Self-consumption with grid)  Maximum power 11500W  Rated output voltage 230V  Rated output frequency 50/60Hz  AC Output (Self-consumption with grid/Off-grid)  Nominal power 5000W  Maximum power 5500W  Rated output voltage 230V  Rated output voltage 230V  Rated output (Self-consumption with grid/Off-grid)  Nominal power 5000W  Maximum power 5500W  Rated output voltage 230V  Rated output frequency 50/60Hz  Batteries data  Capacity From 5,1kWh to 10,3kWh  Usable capacity From 4,60kWh to 9,20kWh  DoD 90%  Cycles at 90% DoD 6000  Cells Metal Can  Type of technology LiFePO4  Nominal battery voltage 51,2V  Max. Charge/discharge current 50A/100A  BMS communication CAN  DC protections (per MPPT)  4 x Fuse holder and fuse 1000Vdc/15A Integrated	Max. photovoltaic field power	6500 Wp
Starting voltage Independent MPPT 2 Maximum current per MPPT 13A Category DC surges II  AC Output (Self-consumption with grid) Maximum power Rated output voltage Rated output frequency 50/60Hz  AC Output (Self-consumption with grid/Off-grid) Nominal power Maximum power S500W Rated output voltage Rated output voltage Rated output voltage Rated output voltage Rated output requency S500W Rated output requency S5060Hz  Batteries data Capacity From 5,1kWh to 10,3kWh Usable capacity From 4,60kWh to 9,20kWh DoD 90% Cycles at 90% DoD Cells Metal Can Type of technology LiFePO <sup>4</sup> Nominal battery voltage S1,2V Max. Charge/discharge current BMS communication CAN  DC protections (per MPPT) 4 x Fuse holder and fuse 1000Vdc/15A Integrated	PV voltage range	100-500 V
Independent MPPT 2  Maximum current per MPPT 13A  Category DC surges II  AC Output (Self-consumption with grid)  Maximum power 11500W  Rated output voltage 230V  Rated output frequency 50/60Hz  AC Output (Self-consumption with grid/Off-grid)  Nominal power 5000W  Maximum power 5500W  Rated output voltage 230V  Rated output voltage 230V  Rated output frequency 50/60Hz  Batteries data  Capacity From 5,1kWh to 10,3kWh  Usable capacity From 4,60kWh to 9,20kWh  DoD 90%  Cycles at 90% DoD -6000  Cells Metal Can  Type of technology LiFePO <sup>4</sup> Nominal battery voltage 51,2V  Max. Charge/discharge current 50A/100A  BMS communication CAN  DC protections (per MPPT)  4 × Fuse holder and fuse 1000Vdc/15A Integrated  AC protections  Magnetothermic Grid Integrated	MPPT working range	125-425V
Maximum current per MPPT Category DC surges II  AC Output (Self-consumption with grid) Maximum power Rated output voltage Rated output frequency So/60Hz  AC Output (Self-consumption with grid/Off-grid) Nominal power Maximum power S5000W Maximum power S500W Rated output voltage Rated output voltage Rated output frequency So/60Hz  Batteries data Capacity From 5,1kWh to 10,3kWh Usable capacity From 4,60kWh to 9,20kWh DoD So/Cycles at 90% DoD Cells Metal Can Type of technology LiFePO4 Nominal battery voltage SI,2V Max. Charge/discharge current SOA/100A BMS communication CAN  DC protections (per MPPT) 4 x Fuse holder and fuse 1000Vdc/15A Integrated  AC protections Magnetothermic Grid Integrated	Starting voltage	150V
Category DC surges II  AC Output (Self-consumption with grid) Maximum power 11500W Rated output voltage 230V Rated output frequency 50/60Hz  AC Output (Self-consumption with grid/Off-grid) Nominal power 5500W Maximum power 5500W Rated output voltage 230V Rated output voltage 230V Rated output frequency 50/60Hz  Batteries data Capacity From 5,1kWh to 10,3kWh Usable capacity From 4,60kWh to 9,20kWh DoD 90% Cycles at 90% DoD >6000 Cells Metal Can Type of technology LiFePO <sup>4</sup> Nominal battery voltage 51,2V Max. Charge/discharge current 50A/100A BMS communication CAN  DC protections (per MPPT) 4 x Fuse holder and fuse 1000Vdc/15A Integrated  AC protections Magnetothermic Grid Integrated	Independent MPPT	2
AC Output (Self-consumption with grid)  Maximum power Rated output voltage Rated output frequency  AC Output (Self-consumption with grid/Off-grid) Nominal power So00W Maximum power S500W Rated output voltage Rated output voltage Rated output frequency So/60Hz  Batteries data Capacity From 5,1kWh to 10,3kWh Usable capacity From 4,60kWh to 9,20kWh DoD 90% Cycles at 90% DoD Sel000 Cells Metal Can Type of technology LiFePO4 Nominal battery voltage Max. Charge/discharge current SOA/100A BMS communication CAN  DC protections (per MPPT) 4 x Fuse holder and fuse 1000Vdc/15A Integrated Integrated	Maximum current per MPPT	13A
Maximum power Rated output voltage Rated output frequency  AC Output (Self-consumption with grid/Off-grid) Nominal power S500W Maximum power S500W Rated output voltage Rated output voltage Rated output requency S5/60Hz  Batteries data Capacity From 5,1kWh to 10,3kWh Usable capacity From 4,60kWh to 9,20kWh DoD 90% Cycles at 90% DoD S6000 Cells Metal Can Type of technology LiFePO <sup>4</sup> Nominal battery voltage Max. Charge/discharge current S0A/100A BMS communication CAN  DC protections (per MPPT) 4 x Fuse holder and fuse 1000Vdc/15A Integrated  Magnetothermic Grid Integrated	Category DC surges	II
Rated output voltage Rated output frequency  SO/60Hz  AC Output (Self-consumption with grid/Off-grid) Nominal power SO00W Maximum power S500W Rated output voltage Rated output frequency SO/60Hz  Batteries data Capacity From 5,1kWh to 10,3kWh Usable capacity From 4,60kWh to 9,20kWh DoD 90% Cycles at 90% DoD 90% Cycles at 90% DoD Cells Metal Can Type of technology LiFePO <sup>4</sup> Nominal battery voltage S1,2V Max. Charge/discharge current SOA/100A BMS communication CAN  DC protections (per MPPT) 4 x Fuse holder and fuse 1000Vdc/15A Integrated  AC protections Magnetothermic Grid Integrated	AC Output (Self-consumption with grid)	
Rated output frequency  AC Output (Self-consumption with grid/Off-grid)  Nominal power  Sonow  Maximum power  Stoow  Rated output voltage  Rated output frequency  Sol/60Hz  Batteries data  Capacity  From 5,1kWh to 10,3kWh  Usable capacity  From 4,60kWh to 9,20kWh  DoD  90%  Cycles at 90% DoD  Cells  Metal Can  Type of technology  LiFePO4  Nominal battery voltage  Max. Charge/discharge current  BMS communication  CAN  DC protections (per MPPT)  4 x Fuse holder and fuse 1000Vdc/15A  Magnetothermic Grid  Integrated	Maximum power	11500W
AC Output (Self-consumption with grid/Off-grid)  Nominal power 5000W  Maximum power 5500W  Rated output voltage 230V  Rated output frequency 50/60Hz  Batteries data  Capacity From 5,1kWh to 10,3kWh  Usable capacity From 4,60kWh to 9,20kWh  DoD 90%  Cycles at 90% DoD >6000  Cells Metal Can  Type of technology LiFePO4  Nominal battery voltage 51,2V  Max. Charge/discharge current 50A/100A  BMS communication CAN  DC protections (per MPPT)  4 x Fuse holder and fuse 1000Vdc/15A Integrated  AC protections  Magnetothermic Grid Integrated	Rated output voltage	230V
Nominal power 5000W  Maximum power 5500W  Rated output voltage 230V  Rated output frequency 50/60Hz  Batteries data  Capacity From 5,1kWh to 10,3kWh  Usable capacity From 4,60kWh to 9,20kWh  DoD 90%  Cycles at 90% DoD >6000  Cells Metal Can  Type of technology LiFePO4  Nominal battery voltage 51,2V  Max. Charge/discharge current 50A/100A  BMS communication CAN  DC protections (per MPPT)  4 x Fuse holder and fuse 1000Vdc/15A Integrated  AC protections  Magnetothermic Grid Integrated	Rated output frequency	50/60Hz
Maximum power 5500W Rated output voltage 230V Rated output frequency 50/60Hz  Batteries data Capacity From 5,1kWh to 10,3kWh Usable capacity From 4,60kWh to 9,20kWh DoD 90% Cycles at 90% DoD >6000 Cells Metal Can Type of technology LiFePO4 Nominal battery voltage 51,2V Max. Charge/discharge current 50A/100A BMS communication CAN  DC protections (per MPPT) 4 x Fuse holder and fuse 1000Vdc/15A Integrated  AC protections Magnetothermic Grid Integrated	AC Output (Self-consumption with grid/Off-	grid)
Rated output voltage Rated output frequency  Batteries data Capacity From 5,1kWh to 10,3kWh Usable capacity From 4,60kWh to 9,20kWh DoD 90% Cycles at 90% DoD Cells Metal Can Type of technology LiFePO4 Nominal battery voltage Now Charge/discharge current BMS communication CAN  DC protections (per MPPT) 4 x Fuse holder and fuse 1000Vdc/15A  Magnetothermic Grid Integrated	Nominal power	5000W
Rated output frequency 50/60Hz  Batteries data Capacity From 5,1kWh to 10,3kWh Usable capacity From 4,60kWh to 9,20kWh DoD 90% Cycles at 90% DoD >6000 Cells Metal Can Type of technology LiFePO4 Nominal battery voltage 51,2V Max. Charge/discharge current 50A/100A BMS communication CAN  DC protections (per MPPT) 4 x Fuse holder and fuse 1000Vdc/15A Integrated  AC protections Magnetothermic Grid Integrated	Maximum power	5500W
Batteries data Capacity From 5,1kWh to 10,3kWh Usable capacity From 4,60kWh to 9,20kWh DoD 90% Cycles at 90% DoD >6000 Cells Metal Can Type of technology LiFePO <sup>4</sup> Nominal battery voltage 51,2V Max. Charge/discharge current 50A/100A BMS communication CAN  DC protections (per MPPT) 4 x Fuse holder and fuse 1000Vdc/15A Integrated  AC protections Magnetothermic Grid Integrated	Rated output voltage	230V
Capacity From 5,1kWh to 10,3kWh  Usable capacity From 4,60kWh to 9,20kWh  DoD 90%  Cycles at 90% DoD >6000  Cells Metal Can  Type of technology LiFePO <sup>4</sup> Nominal battery voltage 51,2V  Max. Charge/discharge current 50A/100A  BMS communication CAN  DC protections (per MPPT)  4 x Fuse holder and fuse 1000Vdc/15A Integrated  AC protections  Magnetothermic Grid Integrated	Rated output frequency	50/60Hz
Usable capacity From 4,60kWh to 9,20kWh  DoD 90%  Cycles at 90% DoD >6000  Cells Metal Can  Type of technology LiFePO4  Nominal battery voltage 51,2V  Max. Charge/discharge current 50A/100A  BMS communication CAN  DC protections (per MPPT)  4 x Fuse holder and fuse 1000Vdc/15A Integrated  AC protections  Magnetothermic Grid Integrated	Batteries data	
DoD 90%  Cycles at 90% DoD >6000  Cells Metal Can  Type of technology LiFePO <sup>4</sup> Nominal battery voltage 51,2V  Max. Charge/discharge current 50A/100A  BMS communication CAN  DC protections (per MPPT)  4 x Fuse holder and fuse 1000Vdc/15A Integrated  AC protections  Magnetothermic Grid Integrated	Capacity	From 5,1kWh to 10,3kWh
Cycles at 90% DoD >6000  Cells Metal Can  Type of technology LiFePO <sup>4</sup> Nominal battery voltage 51,2V  Max. Charge/discharge current 50A/100A  BMS communication CAN  DC protections (per MPPT)  4 x Fuse holder and fuse 1000Vdc/15A Integrated  AC protections  Magnetothermic Grid Integrated	Usable capacity	From 4,60kWh to 9,20kWh
Cells Metal Can Type of technology LiFePO <sup>4</sup> Nominal battery voltage 51,2V Max. Charge/discharge current 50A/100A BMS communication CAN  DC protections (per MPPT) 4 x Fuse holder and fuse 1000Vdc/15A Integrated  AC protections Magnetothermic Grid Integrated	DoD	90%
Type of technology  Nominal battery voltage  51,2V  Max. Charge/discharge current  50A/100A  BMS communication  CAN  DC protections (per MPPT)  4 x Fuse holder and fuse 1000Vdc/15A  AC protections  Magnetothermic Grid  LiFePO <sup>4</sup> 50A/100A  CAN  Integrated	Cycles at 90% DoD	>6000
Nominal battery voltage 51,2V  Max. Charge/discharge current 50A/100A  BMS communication CAN  DC protections (per MPPT)  4 x Fuse holder and fuse 1000Vdc/15A Integrated  AC protections  Magnetothermic Grid Integrated	Cells	Metal Can
Max. Charge/discharge current 50A/100A  BMS communication CAN  DC protections (per MPPT)  4 x Fuse holder and fuse 1000Vdc/15A Integrated  AC protections  Magnetothermic Grid Integrated	Type of technology	LiFePO <sup>4</sup>
BMS communication CAN  DC protections (per MPPT)  4 x Fuse holder and fuse 1000Vdc/15A Integrated  AC protections  Magnetothermic Grid Integrated	Nominal battery voltage	51,2V
DC protections (per MPPT)  4 x Fuse holder and fuse 1000Vdc/15A Integrated  AC protections  Magnetothermic Grid Integrated	Max. Charge/discharge current	50A/100A
4 x Fuse holder and fuse 1000Vdc/15A Integrated  AC protections  Magnetothermic Grid Integrated	BMS communication	CAN
AC protections  Magnetothermic Grid Integrated	DC protections (per MPPT)	
Magnetothermic Grid Integrated	4 x Fuse holder and fuse 1000Vdc/15A	Integrated
	AC protections	
Magnetothermic Load Integrated	Magnetothermic Grid	Integrated
	Magnetothermic Load	Integrated





General data	
Communication with the Portal	Wi-Fi
IP rating	IP20
User interface	APP
Weight (Kg)	95Kg
Switch OnGrid-OffGrid	Automátic
Dimensions (width × height × depth)	600 × 1400 × 600 mm
Certificates and Regulations	
Network connection regulations	RD1699
Safety regulations	IEC/EN62109-1 & -2
EMC	EN61000-3-11 EN61000-3-12 EN61000-6-1 EN61000-6-3



Hybrid system function in parallel with the network



Monitoring APP & WEB





Battery TE5100



