

SALVATERRA® PRIME SYSTEM

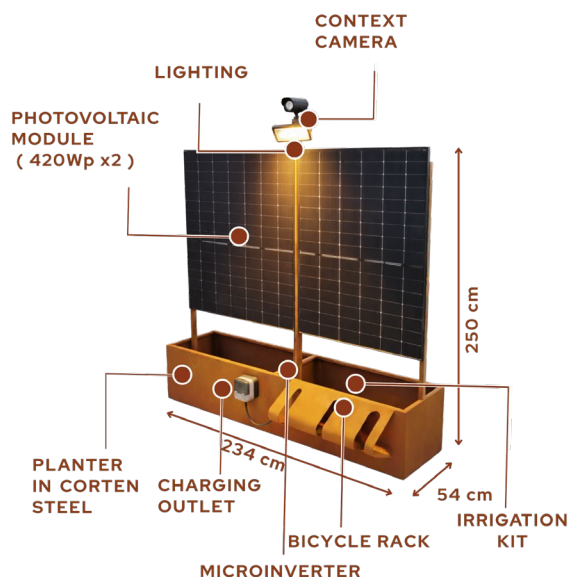


THE ENERGY HUB that blends design and active mobility to protect, connect and empower the smart city.

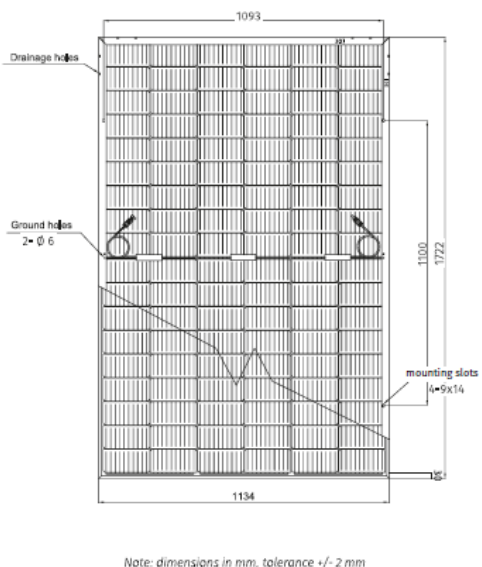
Our philosophy combines design excellence with a modular platform that reduces operating costs, ensures active safety, and accelerates the transition toward widespread electric mobility. Choosing Salvaterra means investing in an energy hub that enhances the urban landscape, transforming every installation into an intelligent node of protection and progress.

PRODUCT FEATURES

Parameter	Value
Tank lenght	234 cm
Total height	250 cm
Tank height	48 cm
Tank widt	54 cm
Tank thikness	3,2 mm – steel S355W (Corten)
Structure weight	177 kg
FV module weight (2x24 kg)	48 kg
Microinverter weight	3,5 kg
Total unit weight	228,5 kg
Soil filling weight	> 1000 kg
Materials	Tank and uprights: Corten steel; panels: bifacial glass – glass
Wind class	Class 5 (UNI EN 13561:2015) – Max speed 17,42 m/s Charateristic wind load: 0,32 kN/mq
Charateristic wind load	MRd/MSd = 116% → OK
Overturning verification	1000 kg/m ²



FV MODUL



Parameter	Value
Model	Futurasun- Silk® Nova Duetto or equivalent
Model dimension	1722 × 1134 × 30 mm
Model weight	25,4 kg
Rated power per module	420-430 Wp
Total system power	0,84-0,86 kWp
Module efficiency	Up to 22%
Technology	Monocrystalline N-Type, byfacial, 108 M10 182 cells, multibusbar
Glass	2 mm Glass-glass anti-reflective front/back
Frame	Black anodized aluminium
Warranties	15 years product warranty – 30 years linear performance warranty
Operating conditions	-40 °C ~ +85 °C, maximum system voltage 1500 V
Mechanical loads	Front 5400 Pa, Rear 2400 Pa
Cable	4mm², L ≈ 110 cm, MC4

PARAMETER

STC

Rated Power (Pmax) (W)	420
Open Circuit Voltage (Voc) (V)	38.06
Short Circuit Voltage (Isc) (A)	14.09
Voltage at Maximum Power (Vmpp) (V)	31.49
Current at Maximum Power (Impp) (A)	13.34
Module Efficiency (%)	21.50

STC (Electrical characteristics under Standard Test Conditions): Irradiance 1000 W/m², cell temperature 25 °C, spectrum AM 1.5; Pmax, Voc and Isc tolerance: ±3%

Electrical Parameters at NOCT

Rated Power (Pmax) (W)	316
Open Circuit Voltage (Voc) (V)	36.18
Short Circuit Voltage (Isc) (A)	11.38
Voltage at Maximum Power (Vmpp) (V)	39.32
Current at Maximum Power (Impp) (A)	10.77

NOCT (Nominal Operating Cell Temperature): Irradiance 800 W/m², cell temperature 20°C, spectrum AM 1.5, wind speed 1 m/s

Temperature Characteristics

Pmax Temperature Coefficient (W / °C)	-0.29 % / °C
Voc Temperature Coefficient (V / °C)	-0.25 % / °C
Isc Temperature Coefficient (A / °C)	+0.045 % / °C
NMOT Nominal Module Operating Temperature (°C)	45 ±2 °C



MICROINVERTER

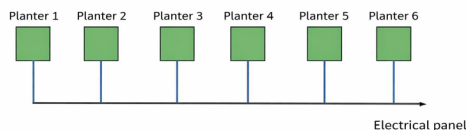


Parameter	Value
Model	Sossen 800W or equivalent
Rated output power	800 VA
Rated output voltage	230 V (180–275 V)
Rated frequency	50 Hz (45–55 Hz)
Independent MPPTs	2 independent (1 input each)
MPPT range	20–60 V
Max input current	2 × 20 A
Max CEC efficiency	96,7%
MPPT efficiency	99,8%
Night-time consumption	<50 mW
Communication	Integrated Wi-Fi and Bluetooth + Tuya Cloud platform
Dimensions	256 × 18 × 37.5 mm
Weight	3,3 kg
Cooling	Natural convection, IP67
Safety	Reactive power control and rapid shutdown
Certifications	VDE-AR-N 4105:2018, EN 50549-1:2019, CEI 0-21

Multiple microinverter connection

- Up to 5 – 6 unit can be connected on the same AC line
- Each planter with 2 modules -> 1 micro-inverter
- Raccomandato maximum line: 5-6 planters connected in parallel with a single AC cable to the electrical panel.

Parallel microinverter connection diagram (max 5-6 unit per line). If more units are required, they can be distributed across multiple lines.



ACCESSORY MODULES



ELECTRICAL CHARGING POINT

consisting of no. 2 sockets with IP66 protective covers for outdoor installation. Includes supply and installation of dedicated RCBO protections, construction of a technical compartment for safety devices, dedicated electrical line, and connection to the existing electrical panel.



ACCESSORY MODULES



MOTORIZED OUTDOOR SURVEILLANCE

CAMERA with 4G LTE connectivity via SIM, Full HD 1080p resolution, and 360° horizontal / 130° vertical rotation for wide-area coverage. Equipped with color night vision, intelligent motion detection, and IP66 protection rating for outdoor use. Integrated LED spotlight for illumination and deterrence function.



AUTOMATIC IRRIGATION SYSTEM

consisting of a smart control unit with app-based management and programming functions, complete with drip micro-irrigation kit for water distribution along the prepared line.



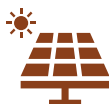
INTEGRATED BENCH

made of larch wood, designed for structural integration.



PLANTER FILLING

with drainage pebbles, lava stone, and cultivation soil suitable for planting.



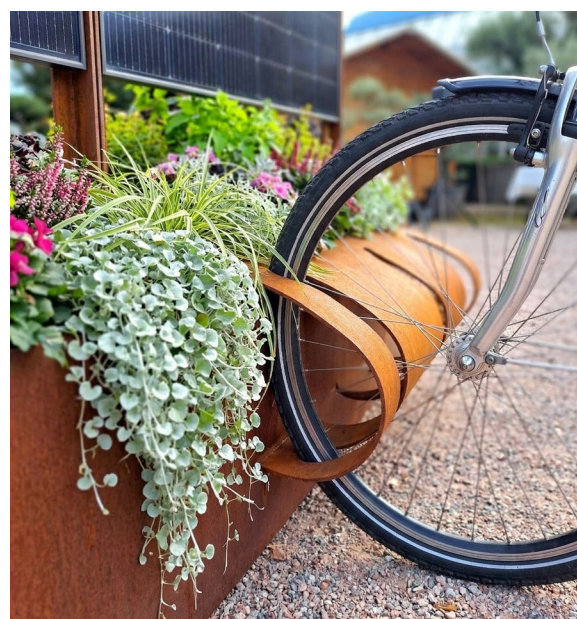
PHOTOVOLTAIC MODULE

with Terracotta color finish, nominal power 400 W.



BICYCLE PARKING STRUCTURE

for no. 2 bicycles, suitable for standard tires and oversized tires (fat bikes, e-bikes with wide wheels).



ENERGY STORAGE BATTERY

for photovoltaic systems with Lithium Iron Phosphate (LFP) technology, nominal capacity 3.8 kWh, complete with single-phase hybrid inverter for integrated management of PV production, storage, and load supply. The system is suitable for both grid-connected and off-grid operation, enabling battery charge/discharge management, energy flow optimization, and continuity of operation. The storage capacity is modular and expandable by adding additional 3.8 kWh batteries, integrated with cell management and protection system (BMS).