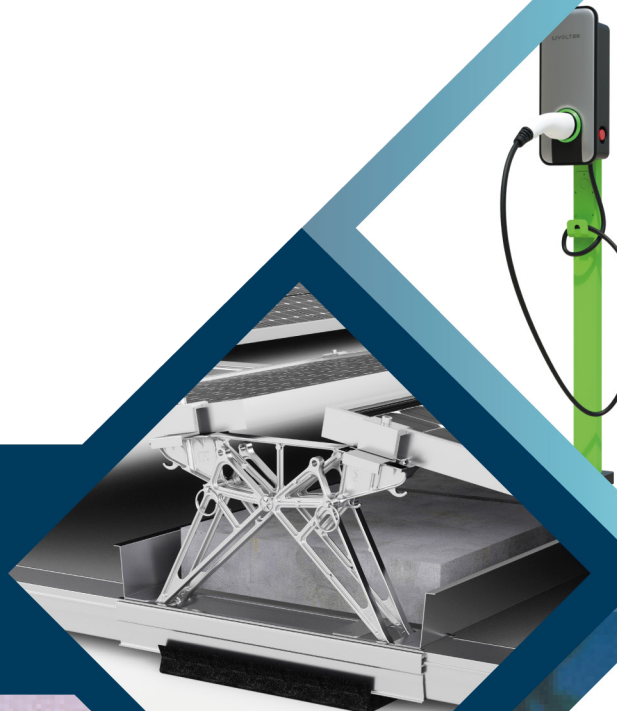




SOLAR SOLUTIONS **OVERVIEW**



Rethinking Water

Solar PV Panels

420/540W

- 25-year performance guarantee & 15-year product warranty
- Up to 21.28 % module efficiency equal to 212.8 Wp/m²
- Two independent section design secures a higher energy yield under shaded conditions
- Half-cut design in combination with multi-busbar reduces operating current and internal resistance
- Lower risk of micro-cracks and hot-spots
- Less shading and more reflected light to the cell thanks to the round ribbon design
- Lower LCOE (Levelized Cost Of Energy), reduced BOS (Balance Of System) cost, shorter payback time
- Long cable as standard suitable for landscape configurations. The 420W PV panel has a 1100mm length cable and the 540W PV panel has a 1400mm length cable



Solar PV Panel (25 Year Warranty)

MODEL	STOCK CODE	PRICE	POWER	OPEN CIRCUIT VOLTAGE	SHORT CIRCUIT CURRENT	MODULE EFFICIENCY	WEIGHT
		€	W	(Voc) V	(Isc) A	%	KG
Futurasun							
420 W PV Panels (All Black)	1200819	POA	420	38.06	14.09	21.80	20.8
580 W PV Panels (All Black)	1235712	POA	580	51	14.48	22.40	28.2



Inverters

The solar inverter or PV inverter is a vital component of a solar photovoltaic (PV) system. It converts the direct current (DC) electricity captured by solar panels, into alternating current (AC), which is the standard flow of electricity required for electrical circuits and domestic appliances.

Hybrid Inverter

A hybrid inverter is essentially a combination of an inverter, a charge controller, and a grid-tie function. A solar inverter can intelligently handle power coming from your PV panels, batteries, and the utility grid all at the same time. It will allow you to export to the Grid when there is surplus power available.

All-in-One Inverter & Battery

This is the premium hybrid all-in-one system, with an inverter and battery rolled into one. It combines the functionality of a standard PV inverter with the added benefits of a battery storage system. These are designed aesthetically for both indoor or outdoor installation with the relevant IP rating.

Grid Tied Inverter

A grid-tied PV inverter is a device that converts the direct current into alternating current. The converted power can be used to power household appliances when there is sufficient light on the PV panel during the day. You cannot store any of the solar energy in Batteries with these inverters. Some types of this inverter will allow export to the Grid if there is surplus solar power.



Single Phase Hybrid & Grid Tide Inverters (10 Year Warranty)

MODEL	STOCK CODE	PRICE €	MAX. INPUT POWER W	NOMINAL OUTPUT POWER W	NOMINAL OUTPUT CURRENT A	MAX INPUT VOLTAGE V	WEIGHT KG
Livoltek							
5kW Hybrid Inverter Hyper-5000	1199930	POA	7500	5000	23.9	600	30
5kW Grid Tide Inverter GT1-5KDR	1237543	POA	6900	5000	23.9	550	12.5
Ecactus							
5kW Hybrid Inverter COPIA SH	1200923	POA	6650	5000	26.1	600	19.8

Technical Data: Single Phase Hybrid & Grid Tide Inverters

MODEL	NO. OF MPPT	STRINGS PER MPPT	NOMINAL VOLTAGE V	EFFICIENCIES %	IP RATING
Livoltek					
5kW Grid Tide Inverter GT1-5KDR	2	1	360	97.8	65
Ecactus					
5kW Hybrid Inverter COPIA SH	2	1	360	97.6	65
5kW Hybrid Inverter COPIA SH	2	1	360	97.8	65

Three Phase Inverters

MODEL	STOCK CODE	PRICE	MAX. INPUT POWER	NOMINAL OUTPUT POWER	NOMINAL OUTPUT CURRENT	MAX INPUT VOLTAGE	WEIGHT
		€	W	W	A	V	KG
Livoltek - 10 Year Warranty							
10kW Hybrid Inverter <i>HP3-10KD1</i>	1237544	POA	15000	10000	17	1000	23
30kW Hybrid Inverter <i>GT3-30KD1</i>	1237545	POA	45000	30000	50.1	1100	44
40kW Hybrid Inverter <i>GT3-40KD1</i>	1237546	POA	60000	40000	66.9	1100	47
50kW Hybrid Inverter <i>GT3-50KD1</i>	1237547	POA	75000	50000	83.6	1100	47
60kW Grid Tide Inverter <i>GT3-60KD1</i>	1237548	POA	90000	60000	91	1100	47



Ecactus - 5 Year Warranty							
10kW Hybrid Inverter <i>COPIA TH</i>	1235193	POA	15000	10000	14.5	1000	28

Technical Data: Three Phase Hybrid & Grid Tide Inverters

MODEL	NO. OF MPPT	STRINGS PER MPPT	NOMINAL VOLTAGE	EFFICIENCIES	IP RATING
			V	%	
Livoltek					
10kW Hybrid Inverter <i>HP3-10KD1</i>	2	1	600	98.2	65
30kW Hybrid Inverter <i>GT3-30KD1</i>	3	4	620	98.5	65
40kW Hybrid Inverter <i>GT3-40KD1</i>	3	4	620	98.5	65
50kW Hybrid Inverter <i>GT3-50KD1</i>	3	4	620	98.5	65
60kW Grid Tide Inverter <i>GT3-60KD1</i>	3	4	620	98.5	65
Ecactus					
10kW Hybrid Inverter <i>COPIA TH</i>	2	1	620	98	65



Single Phase All-in-One Inverter & Battery (10 Year Warranty)

MODEL	STOCK CODE	PRICE €	MAX INPUT POWER W	NOMINAL OUTPUT POWER W	NO. OF MPPT	STRINGS PER MPPT	MAX OUTPUT CURRENT A
Livoltek							
5kW Hybrid Inverter + 5kW Battery	1200205	POA	7500	5000	2	1	21.7
5kW Hybrid Inverter + 10kW Battery	1200206	POA	7500	5000	2	1	21.7
Ecactus							
5kW Hybrid Inverter + 5kW Battery	1200855	POA	6650	4600	2	1	23.9
5kW Hybrid Inverter + 10kW Battery	1200886	POA	6650	5000	2	1	23.9

Technical Data: Single Phase All-in-One Inverter & Battery

MODEL	INVERTER	MAX PV INPUT VOLTAGE V	EFFICIENCIES %	WEIGHT OF INVERTER & BATTERY KG	BATTERY	DEPTH OF DISCHARGE %	CELL TYPE	CYCLE LIFETIME	MAX CHARGE CURRENT A	MAX DISCHARGE CURRENT A	BATTERY VOLTAGE V
	NOMINAL VOLTAGE V				IP RATING OF INVERTER & BATTERY						
Livoltek											
5kW Hybrid Inverter + 5kW Battery	51.2	600	97.8	87	21 / 65	90	LFP	6000	50	100	40-60
5kW Hybrid Inverter + 10kW Battery	51.2	600	97.8	87	21 / 65	90	LFP	6000	50	100	40-60
Ecactus											
5kW Hybrid Inverter + 5kW Battery	204.8	600	97.6	79	65	90	LiFePO4	6500	25	25	204.8
5kW Hybrid Inverter + 10kW Battery	409.6	600	97.6	131	65	90	LiFePO4	6500	25	25	409.6



Single Phase Storage Battery for All-in-One (10 Year Warranty)

MODEL	STOCK CODE	PRICE €	DEPTH OF DISCHARGE %	CELL TYPE	CYCLE LIFETIME
Ecactus Agave					
5kW Extra Battery & Extension Cables	1200943	POA	90	LiFePO4	6000

Three Phase All-in-One Inverter & Battery (10 Year Warranty)



MODEL	STOCK CODE	PRICE €	MAX. INPUT POWER W	NOMINAL OUTPUT POWER W	NOMINAL VOLTAGE V	MAX INPUT VOLTAGE V	MAX OUTPUT CURRENT A
Ecactus Agave All in One Unit							
Agave 10kW 3phase Hybrid Inverter & 10kWh Battery (2*5kWh) For Indoor	1237539	POA	20000	10000	980	1000	14.5
Agave 10kW 3phase Hybrid Inverter & 10kWh Battery (2*5kWh) With Heating Pads	1237540	POA	20000	10000	980	1000	14.5
5kW Extra Battery Without Heating Pads	1237541	POA	20000	10000	980	1000	14.5
5kW Extra Battery With Heating Pads	1237542	POA	20000	10000	980	1000	14.5

Technical Data: Three Phase All-in-One Inverter & Battery

MODEL	INVERTER	STRINGS PER MPPT	EFFICIENCIES	MAX POWER OF BATTERY EXPANSION	IP RATING OF INVERTER & BATTERY	BATTERY	CELL TYPE	CYCLE LIFETIME	MAX CHARGE CURRENT	MAX DISCHARGE CURRENT	BATTERY VOLTAGE
	NO. OF MPPT					DEPTH OF DISCHARGE					
			%	kW		%			A	A	V
Ecactus Agave 3PH All in one units											
Agave 10kW 3phase Hybrid Inverter & 10kWh Battery (2*5kWh) For Indoor	2	2	98.5	29.9	65	90	LFP High Voltage	8000	52	52	96
Agave 10kW 3phase Hybrid Inverter & 10kWh Battery (2*5kWh) With Heating Pads	2	2	98.5	29.9	65	90	LFP High Voltage	8000	52	52	96

Battery Energy Storage System (BESS)

Battery Energy Storage Systems, or BESS, are rechargeable batteries that can store energy from different sources and discharge it when needed. A BESS consists of one or more batteries and can be used to balance the electric grid, provide backup power and improve grid stability. The energy released by the batteries during discharge can power homes, vehicles, and export to the grid (depending on the battery capacity).

BESS Types:

1. **Low Voltage Batteries (BLF51):** Low voltage batteries typically have a voltage of below 100V. As the batteries have less pressure, they also have less power. Low voltage battery systems are great for off-grid systems, and users looking for large capacity potential with a medium to low energy demand.
2. **High Voltage Batteries (LiFePo4):** High voltage solar batteries offer a higher discharge rate to support higher load demands. High voltage battery systems are usually rated around 400V. These systems can charge and discharge faster than the low voltage batteries and can cover those quick demand surges from starting equipment. A LiFePo4 Battery is known as the safest, most stable, and reliable battery type due to the lithium iron phosphate having a better thermal and structural stability. It can withstand high temperatures without decomposing. It's not prone to thermal runaway and will keep cool at room temperature.

High Voltage Energy Storage Batteries (10 Year Warranty)

MODEL	STOCK CODE	PRICE €	DEPTH OF DISCHARGE %	CELL TYPE	CYCLE LIFETIME
Can be used with ECACTUS Ultra SPH and Agve 3 PH					
ECACTUS MYTRILLO 10kW Battery (1 Controller & 2*5kW Batteries) No Heating Pads	1235194	POA	90	LFP High Voltage	8000
ECACTUS MYTRILLO 15kW Battery (1 Controller & 3*kW Batteries) No Heating Pads	1237771	POA	90	LFP High Voltage	8000
ECACTUS MYTRILLO 20kW Battery (1 Controller & 4*5kW Batteries) No Heating Pads	1237772	POA	90	LFP High Voltage	8000
ECACTUS MYTRILLO 25kW Battery (1 Controller & 5*5kW Batteries) No Heating Pads	1237773	POA	90	LFP High Voltage	8000
ECACTUS MYTRILLO 30kW Battery (1 Controller & 6*5kW Batteries) No Heating Pads	1237775	POA	90	LFP High Voltage	8000

ECACTUS MYTRILLO Batteries with Heated Pad also available

Technical Data: High Voltage Energy Storage Batteries (10 Year Warranty)

MODEL	NOMINAL VOLTAGE	WEIGHT	IP RATING
Different Combinations for ECACTUS MYTRILLO Battery			
ECACTUS MYTRILLO 10kW Battery (1 Controller & 2*5kW Batteries)	192	126	65
ECACTUS MYTRILLO 15kW Battery (1 Controller & 3*kW Batteries)	288	183	65
ECACTUS MYTRILLO 20kW Battery (1 Controller & 4*5kW Batteries)	384	240	65
ECACTUS MYTRILLO 25kW Battery (1 Controller & 5*5kW Batteries)	480	297	65
ECACTUS MYTRILLO 30kW Battery (1 Controller & 6*5kW Batteries)	576	354	65

Other Inverters Compatible with MYTRILLO (10kW Battery)

INVERTER BRAND	MODEL
Sofar	HV Series(HYD15KTL-3PH)
Solinteg	HV Series(MHT-12-25)
Aiswei/solplanet	HV Series(ASW10KH-T1)
Afore	HV Series
KOYOE	HV Series
Hypontech	HV Series
DEYE	HV Series(SUN-6K-SG01HP3-EU)
SOLIS	HV Series(RHI-3P10K-HVES-5G)
GOODWE	HV Series(GW10KL-ET)
INVT	HV Series(BD10KTR-RH3)
Holymiles	HV Series
Hypontech	HV Series
Megarevo	R10KH3
Hopewind	HV Series
RENAC	N3-HV-10.0/N1-HV-6.0
Sunways	STH-4~12KTL-HT-P
Sinexcel	HV Series
Growatt	HV Series



NOTE: EPS does not supply these inverters. If one is required, it will need to be sourced from a different supplier.

EV CHARGER



Single Phase AC EV Chargers (2 Year Warranty)

MODEL	STOCK CODE	PRICE	RATED VOLTAGE	RATED CURRENT	VEHICLE CONNECTOR	MODE OF COMMUNICATION	WEIGHT
Wall Mounted		€	VAC	A			KG
Livoltek							
7.3kW Home CT & Meter included (No REIF card)	1200207	POA	230Vac + - 10%	6~32A	Type: 2 5m Cable	Bluetooth /Wifi	3.7
EPS							
7kW Home CT & Meter included (2 x RFID card, Wi-Fi, Bluetooth, App)	1200961	POA	230Vac + - 20%	32A	Type: 2 5m Cable	RFID/Bluetooth /Wifi	5.1

Three Phase EV Chargers (2 Year Warranty)

MODEL	STOCK CODE	PRICE	RATED VOLTAGE	RATED CURRENT	VEHICLE CONNECTOR	WEIGHT	MODE OF COMMUNICATION
Wall Mounted		€	VAC	A		KG	
Livoltek							
22kW EV Charger CT & Meter Included (No REIF card)	1199931	POA	400 Vac + - 10%	6~32A	Type: 2 5m Cable	5.1	Bluetooth / Wifi

Wall Mounted

EPS

11kW Wall EV Charger Meter & 3CT (2 x RFID card, Wi-Fi, Bluetooth, App)	1237693	POA	400 Vac + - 20%	16A	Type: 2 5m Cable	5.5	RFID/Bluetooth/Wifi
44kW (22kW*2) EV Charger Wall-Mounted For 2 Cars (Card Reader Included)	1200963	POA	401 Vac + - 20%	16A*2	Type: 2 Socket: 2	13.5	RFID/Bluetooth/Wifi/4G

Floor Mounted

EPS

22kW (11kW*2) Floor EV Charger (2 x RFID card, Wi-Fi, Bluetooth, 4G, App)	1200964	POA	402 Vac + - 20%	32A*2	Type: 2 Gun: 2.5m	33	RFID/Bluetooth/Wifi/4
44kW (22kW*2) Floor EV Charger (2 x RFID card, Wi-Fi, Bluetooth, 4G, App)	1200960	POA	403 Vac + - 20%	32A*2	Type: 2 Socket: 2	35	RFID/Bluetooth/Wifi/4

Technical Data: EV Chargers

MODEL	NO. OF GUNS	IP DEGREE	RATED FREQUENCY
Wall Mounted			Hz
EPS			
7kW Home EV Wall box	1	54	50/60
11kW EV Charger Wall-Mounted	1	54	50/60
44kW (22kW*2) EV Charger Wall-Mounted For 2 Cars	2	65	50/60
Floor Mounted			
Livoltek			
7.3kW EV Charger (only load meter included)	1	54	50/60
22kW EV Charger (only load meter included)	1	54	50/60
EPS			
22kW (11kW*2) EV Charger Floor-Mounted For 2 Cars	2	54	50/60
44kW (22kW*2) EV Charger Floor-Mounted For 2 Cars	2	54	50/60



Accessories

MODEL	STOCK CODE	PRICE
		€
Load Balance Meter and 3xCT for 3 Phase EPS EV chargers	1235493	POA
Livoltek Mounting Pole	1200208	POA
EPS Mounting Pole for 11kw Charger	1237694	POA
EPS Mounting Pole for 44kW Wall Chargers	1237697	POA

TreeSystem Ground Mounting for Agricultural Ground



MODEL	STOCK CODE	PRICE	Type of PV	Number of PV	Number of Rows	Tools Required	Max Power
		€					kW
TreeSystem Ground Mounting for Soil, Quarries & landfills							
Ground Mounting for Agricultural Ground, Steep Slops and NO concrete Footing	1236001	POA	580	20	2	Electropneumatic Hammer	11.6
TreeSystem SDS Max Tools (Tip for electropneumatic hammers)	1236009	POA	-	-	-	-	-
TreeSystem Pair of spacers tools	1236010	POA	-	-	-	-	-

Mounting Systems (10 Year Warranty) (Made in Germany)



MODEL	STOCK CODE	PRICE	TOTAL POWER OUTPUT WITH 540WP PANELS
		€	kWp
Mounting Systems GmbH			
Sample Pricing for Slate Mounting Systems			
7 Panels Slated Roof Mounting	1200188	POA	3.78
9 Panels Slated Roof Mounting	1200189	POA	4.86
11 Panels Slated Roof Mounting	1200191	POA	5.94
16 Panel Flat Roof Mounting	1200223	POA	8.64

NOTE: Prices will depend on design of mounting system & materials used for each house, dependent on static on location, orientation of house, wind, snow, & rain resistance calculations.

Mounting Systems (10 Year Warranty) (Made in Germany)

MODEL	STOCK CODE	PRICE	SEGMENTS	DIMENSIONS	TOTAL POWER OUTPUT WITH 540WP PANELS (PV NOT INCLUDED) kWp
<i>Mounting Systems GmbH</i>		€		TOTAL SEGMENTS	
Sample Pricing for Carport Mounting Systems					
20 cars Solar E-Port	1200970	POA	10	52m x 6.2m x 3.58m	10.8kWp
30 cars Solar E-Port	1200971	POA	15	78m x 6.2m x 3.58m	16.2kWp
40 cars Solar E-Port	1200972	POA	20	104m x 6.2m x 3.58m	21.6kWp
110 cars Solar E-Port	1200973	POA	55	287m x 6.2m x 3.58m	59.4kWp

NOTE: Prices will depend on design of each E-Port & materials used for each E-Port, dependent on static on location, orientation of E-Port, wind, snow, & rain resistance calculations. Please note that panels are not included in the above E-Port pricing.





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