

EUROLAMP®

Pioneers in New Technology!

bright
eco
energy



MODULES | INVERTERS | BATTERIES | MOUNTING BASES | CHARGERS

AE SOLAR PV Modules

AURORA Available nominal max. power (watt) ►
370/410/450/550/660
Half-Cut Cells • Mono-Facial

High efficiency PV modules manufactured with **half cut technology**, which reduces thermal resistance and increases power output, leading to improved energy efficiency.

Extremely stable and tough construction, **certified for its resistance to salt corrosion, sand and ammonia**.

Effective **resistance to PID** (Potential Induced Degradation) phenomenon certified by TUV.

15 YEARS
PRODUCT
WARRANTY

30 YEARS
PERFORMANCE
GUARANTEE



Mechanical and design specification		165-10056
Cell type	Gallium-doped Mono c-Si PERC, Half-cut cells, 182 mm	
No. of cells	144	
Glass	3.2 mm, high transmission, AR coated, tempered	
Encapsulation	EVA	
Back cover	White backsheet	
Junction box	IP 68 rated	
Frame	35 mm anodized Aluminium alloy	
Cable	1 x 4 mm ² , 350 mm length or customized	
Connectors	MC 4 / MC 4 compatible	
Dimension	2278 mm x 1133 mm x 35 mm	
Weight	27 kg	
Hail resistance	Max. Ø 25 mm at 23 m/s	
Wind load	2400 Pa/ 244 kg/ m ²	
Mechanical load	5400 Pa/ 550 kg/ m ²	

Packaging information

Packaging configuration	62 pcs / double pallet	
Loading capacity	620 pcs / 40 HQ	
Size / Pallet	2310 mm x 1140 mm x 2490 mm	
Weight	1804 kg / double pallets	

Temperature ratings

Operating temperature	(°C)	40 to +85
Temp. Coefficient of Pmax	(%/°C)	-0.35
Temp. Coefficient of Voc	(%/°C)	-0.275
Temp. Coefficient of Isc	(%/°C)	0.045
Nom. operating temp. NOCT	(°C)	45 ± 2

Electrical specifications (STC*)

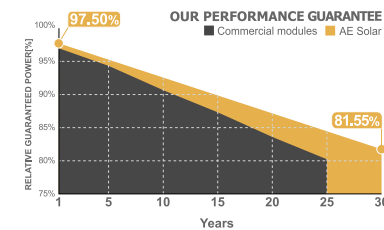
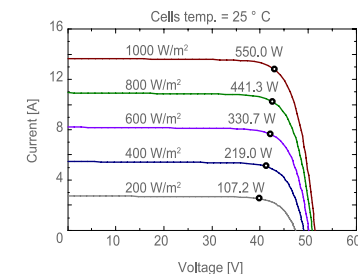
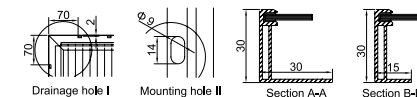
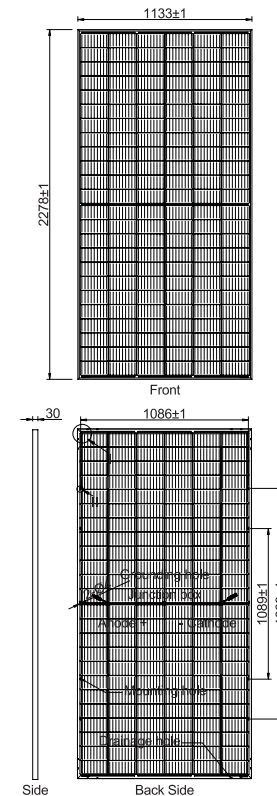
Nominal Max. Power	Pmax (Wp)	550
Maximum operating voltage	VMPP (V)	42.57
Maximum operating current	IMPP (A)	12.92
Open-circuit voltage	Voc (V)	51.44
Short-circuit current	Isc (A)	13.67
Module efficiency	η (%)	21.31
Power tolerance	(W)	
Maximum system Voltage	(V)	
Maximum series fuse rating	(A)	

*STC: Standard Test Conditions (Irradiance 1000 W/m², Cell Temperature 25°C And Air Mass Of Am1.5)

Electrical specifications (NMOT*)

Nominal Max. Power	Pmax (Wp)	414
Maximum operating voltage	VMPP (V)	40.10
Maximum operating current	IMPP (A)	10.34
Open-circuit voltage	Voc (V)	47.80
Short-circuit current	Isc (A)	10.94

*NMOT: Normal Module Operating Temperature (Irradiance 800 W/m², Ambient temperature 20°C, air mass of AM1.5 and wind speed of 1 m/s)



IEC 61215 - IEC 61730
Regular Production Surveillance
Type Tested and Monitored
IEC 62716 (Ammonia corrosion)
IEC 61701 (Salt mist corrosion)
IEC 60068 (Sand and dust)
IEC 62804 (PID resistance)



AE SOLAR Bi Facial PV Modules

AURORA Available nominal max. power (watt) ►
380/450/550/600/660
Half-Cut Cells

COMET Available nominal max. power (watt) ►
380/400/460/615/635
Half-Cut Cells

METEOR Available nominal max. power (watt) ►
410/460/555
Half-Cut Cells

The advanced construction of new technology Bi-facial PV modules, **produces energy from both sides**. Its back side, which is not directly exposed to the sun, absorbs all solar reflections from the surrounding area and maximizes their performance.

15 YEARS
PRODUCT
WARRANTY

30 YEARS
PERFORMANCE
GUARANTEE



Deutsche
Qualität
Garantiert



IEC 61215 - IEC 61730
Regular Production Surveillance
Type Tested and Monitored
IEC 62716 (Ammonia corrosion)
IEC 61701 (Salt mist corrosion)
IEC 60068 (Sand and dust)
IEC 62804 (PID resistance)



Mechanical and design specification		165-10272
Cell type	N-type TOPCon Technology, Half-cut cells, 182 mm	
No. of cells	120	
Bifaciality	80±5%	
Glass	2.0 mm, high transmission, AR coated, tempered	
Encapsulation	POE	
Back cover	2.0 mm white glazed glass, tempered	
Junction box	IP 68 rated	
Frame	30 mm anodized Aluminium alloy	
Cable	1 x 4 mm ² , 350mm length or customized	
Connectors	MC 4 / MC 4 compatible	
Dimension	1902 mm x 1133 mm x 30 mm	
Weight	29 kg	
Hail resistance	Max. Ø 25 mm at 23 m/s	
Wind load	2400 Pa/ 244 kg/ m ²	
Mechanical load	5400 Pa/ 550 kg/ m ²	
Fire Rating	Class A (according to UL 790)	

Packaging information	
Packaging configuration	72 pcs / double pallets
Loading capacity	864 pcs / 40 HQ
Size / Pallet	1945 mm x 1140 mm x 2490 mm
Weight	2054kg / double pallets

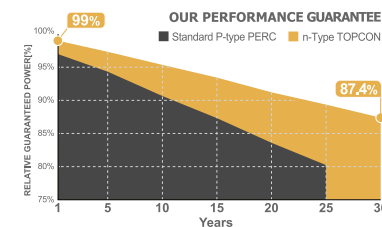
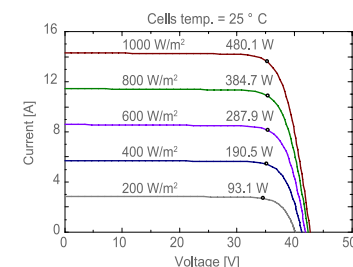
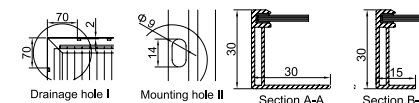
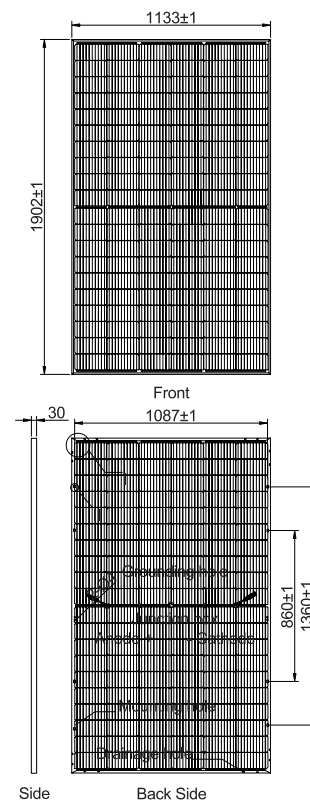
Temperature ratings		
Operating temperature	(°C)	-40 to +85
Temp. Coefficient of Pmax	(%/°C)	-0.3
Temp. Coefficient of Voc	(%/°C)	-0.25
Temp. Coefficient of Isc	(%/°C)	0.046
Nom. operating temp. NOCT	(°C)	42 ± 2

Electrical specifications (STC*)		
Nominal Max. Power	Pmax (Wp)	460
Maximum operating voltage	VMPP (V)	34.72
Maximum operating current	IMPP (A)	13.25
Open-circuit voltage	Voc (V)	42.05
Short-circuit current	Isc (A)	13.99
Module efficiency	η (%)	21.35
Power tolerance	(W)	
Maximum system Voltage	(V)	
Maximum series fuse rating	(A)	

*STC: Standard Test Conditions (Irradiance 1000 W/m², Cell Temperature 25°C And Air Mass Of Am1.5)

Electrical specifications (NMOT*)		
Nominal Max. Power	Pmax (Wp)	346
Maximum operating voltage	VMPP (V)	32.6
Maximum operating current	IMPP (A)	10.61
Open-circuit voltage	Voc (V)	39.94
Short-circuit current	Isc (A)	11.29

*NMOT: Normal Module Operating Temperature (Irradiance 800 W/m², Ambient temperature 20°C, air mass of AM1.5 and wind speed of 1 m/s)



AE SOLAR Full Black PV Modules

AURORA Available nominal max. power (watt) ▶
395 Half-Cut Cells • Mono-Facial

THUNDER Available nominal max. power (watt) ▶
420/440 Shingled Cells • Mono-Facial

ECLIPSE Available nominal max. power (watt) ▶
415/435 Shingled Cells • Mono-Facial

The Full Black PV modules stand out immediately. Constructed with a black frame, they are **designed to minimize losses even in low sunlight conditions**. Suitable for all photovoltaic installations, it is particularly attractive in applications that combine efficient energy production with discreet aesthetics.

15 YEARS
PRODUCT
WARRANTY

30 YEARS
PERFORMANCE
GUARANTEE



IEC 61215 • IEC 61730
Regular Production Surveillance
Type Tested and Monitored
IEC 62716 (Ammonia corrosion)
IEC 61701 (Salt mist corrosion)
IEC 60068 (Sand and dust)
IEC 62804 (PID resistance)



Mechanical and design specification		165-10245
Cell type	Mono c-Si PERC, Shingled cells, 210 mm	
No. of cells	320 (64x5)	
Glass	3,2 mm, high transmission, AR coated, tempered	
Encapsulation	EVA	
Back cover	EVA-side black, rear-side white backsheet	
Junction box	IP 68 Rated, 2 bypass diodes	
Frame	30 mm anodized Aluminium alloy, full black	
Cable	Vertical +500 mm/-1100 mm, Horizontal +250 mm/-150 mm	
Connectors	MC 4 / MC 4 compatible	
Dimension	1899 mm x 1096 mm x 30 mm	
Weight	21.8 kg	
Hail resistance	Max. Ø 25 mm at 23 m/s	
Wind load	2400 Pa/ 244 kg/ m²	
Mechanical load	5400 Pa/ 550 kg/ m²	
Packaging information		
Packaging configuration	72 pcs / double paletts	
Loading capacity	864 pcs / 40 HQ	
Size / Pallet	1916 mm x 1125 mm x 2460 mm	
Weight	1650 kg / double paletts	

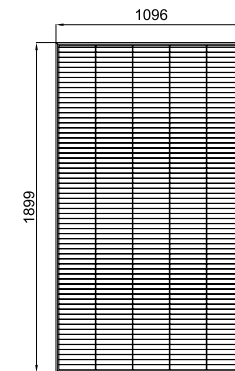
Temperature ratings		
Operating temperature	(°C)	-40 to +85
Temp. Coefficient of Pmax	(%/°C)	-0.34
Temp. Coefficient of Voc	(%/°C)	-0.27
Temp. Coefficient of Isc	(%/°C)	0.040
Nom. operating temp. NOCT	(°C)	42.3 ± 2

Electrical specifications (STC*)		
Nominal Max. Power	Pmax (Wp)	425
Maximum operating voltage	VMPP (V)	36.0
Maximum operating current	IMPP (A)	11.81
Open-circuit voltage	Voc (V)	43.4
Short-circuit current	Isc (A)	12.56
Module efficiency	η (%)	20.42
Power tolerance	(W)	
Maximum system Voltage	(V)	
Maximum series fuse rating	(A)	

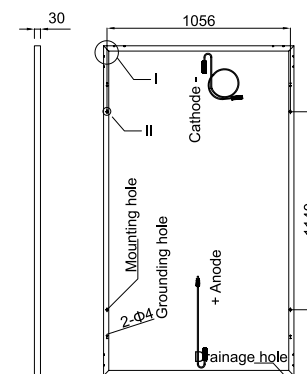
*STC: Standard Test Conditions (Irradiance 1000 W/m², Cell Temperature 25 °C And Air Mass Of Am1.5)

Electrical specifications (NMOT*)		
Nominal Max. Power	Pmax (Wp)	320
Maximum operating voltage	VMPP (V)	34.3
Maximum operating current	IMPP (A)	9.32
Open-circuit voltage	Voc (V)	41.4
Short-circuit current	Isc (A)	10.14

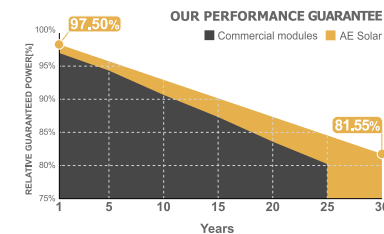
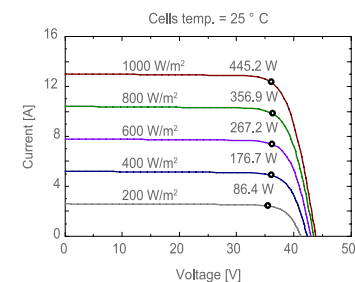
*NMOT: Normal Module Operating Temperature (Irradiance 800 W/m², Ambient temperature 20 °C, air mass of AM1.5 and wind speed of 1 m/s)



Front



Side Back Side



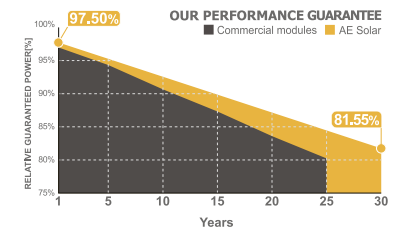
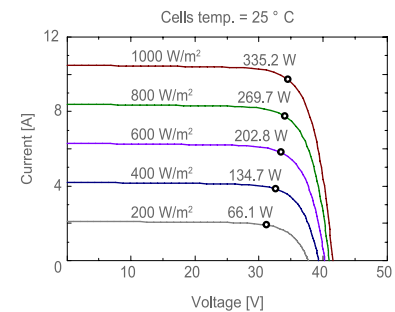
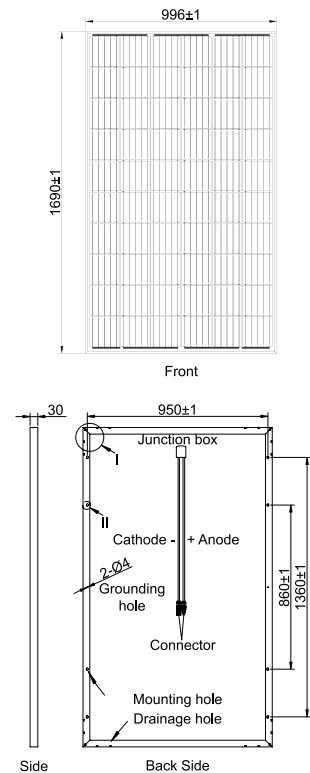


Mechanical and design specification		165-10300
Cell type	Mono c-Si PERC, Full cells, 158.75mm	
No. of cells	60	
Glass	3,2 mm, high transmission, AR coated, tempered	
Encapsulation	EVA	
Back cover	White Backsheet	
Junction box	IP 68 rated	
Frame	30 mm anodized Aluminium alloy	
Cable	1 x 4 mm ² , 900 mm length or customized	
Connectors	MC 4 / MC 4 compatible	
Dimension	1690 mm x 996 mm x 30 mm	
Weight	18.5 kg	
Hail resistance	Max. Ø 25 mm at 23 m/s	
Wind load	2400 Pa/ 244 kg/ m ²	
Mechanical load	5400 Pa/ 550 kg/ m ²	
Packaging information		
Packaging configuration	76 pcs / double pallets	
Loading capacity	988 pcs / 40 HQ	
Size / Pallet	1725 mm x 1140 mm x 2395 mm	
Weight	1504 kg / double pallets	

Temperature ratings		
Operating temperature	(°C)	-40 to +85
Temp. Coefficient of P _{max}	(%/°C)	-0.37
Temp. Coefficient of Voc	(%/°C)	-0.28
Temp. Coefficient of Isc	(%/°C)	0.048
Nom. operating temp. NOCT	(°C)	45 ± 2

Electrical specifications (STC*)		
Nominal Max. Power	P _{max} (Wp)	330
Maximum operating voltage	VMPP (V)	33.81
Maximum operating current	IMPP (A)	9.76
Open-circuit voltage	Voc (V)	41.31
Short-circuit current	Isc (A)	10.37
Module efficiency	η (%)	19.61
Power tolerance	(W)	0~+5
Maximum system Voltage	(V)	1500
Maximum series fuse rating	(A)	15
*STC: Standard Test Conditions (Irradiance 1000 W/m ² , Cell Temperature 25°C And Air Mass Of Am1.5)		

Electrical specifications (NMOT*)		
Nominal Max. Power	P _{max} (Wp)	248
Maximum operating voltage	VMPP (V)	31.80
Maximum operating current	IMPP (A)	7.81
Open-circuit voltage	Voc (V)	38.10
Short-circuit current	Isc (A)	8.30
*NMOT: Normal Module Operating Temperature (Irradiance 800 W/m ² , Ambient temperature 20°C, air mass of AM1.5 and wind speed of 1 m/s)		



AE SOLAR

Maximizing the energy yield

HSF Available nominal max. power (watt) ▶
415/435 Full Cells • Mono-Facial

AE SOLAR SMART MODULE with HOT-SPOT FREE technology has a lower operating temperature, which not only eliminates a potential cause for back sheet degradation, but also prevents damage to silicon-based cells.

Enhanced lifetime of AE SOLAR SMART MODULES with HOT-SPOT FREE technology is up to 25 years over standard warranty term

HSF

tested by
Fraunhofer
 CSP

15 YEARS PRODUCT WARRANTY | **30 YEARS** PERFORMANCE GUARANTEE

AE SOLAR
 alternative energy

TIER 1
 Bloomberg
 New Energy Finance



IEC 61215
 IEC 61730
 Regular Production Surveillance
 Type Tested and Monitored

IEC 62716 (Ammonia corrosion)
 IEC 61701 (Salt mist corrosion)
 IEC 60068 (Sand and dust)
 IEC 62804 (PID resistance)





Single-phase Hybrid Inverters

4 & 5 kW low voltage batteries compatible (LV)

Max.
1,5

1.5 Times
PV OVERSIZE

2
MPPT

MPPT CHANNELS
UP TO 2 MPPT CHANNELS

<10
ms

UPS FUNCTION
SWITCH TIME < 10ms



MAX. 6 PARALLEL
STACKING



MULTIPLE INPUTS SUPPORT
GENERATOR & WIND TURBINES

Support for uptime optimization • Adjustable modes of operation • Arc Fault Circuit Interrupter (AFCI) • Built-in Anti-feed-in function • Compact size & easy installation • Smart monitoring & remote firmware upgrade.

PV Input	165-13007	165-13009
Max. Input Power (kW)	5.4	6.9
Max. PV Voltage (V)		550
Full MPPT Range (V)	110 - 500	130 - 500
Normal Voltage (V)		360
Startup Voltage (V)		100
Max. Input Current (A)		18.5 x 2
Max. Short Current (A)		26 x 2
No. of MPP Tracker / No. of PV String		2 / 2

Battery Port		
Max. Charge/Discharge Power (kW)	3.6	4.6
Max. Charge/Discharge Current (A)	80	80
Battery Normal Voltage (V)		51.2
Battery Voltage Range (V)		40 - 60
Battery Type		Li-ion / Lead-acid etc.

AC Grid		
Max Continuous Current (A)	17.0	22.0
Max Continuous Power (kVA)	3.6	4.6
Nominal Grid Current (A)	16.4 / 15.7	21.0 / 20.0
Nominal Grid Voltage (V)		198 to 242 @ 220 / 207 to 253 @ 230
Nominal Grid Frequency (Hz)		50 / 60
Power Factor		0.999 (Adjustable from 0.8 overexcited to 0.8 underexcited)
Current THD (%)		< 3

AC Load Output		
Max Continuous Current (A)	17.0	22.0
Max Continuous Power (kVA)	3.6	4.6
Max Peak Current (A) (10min)	24.6 / 23.5	31.4 / 30
Max Peak Power (kVA) (10min)	5.4	6.9
Nominal AC Current (A)	16.4 / 15.7	21.0 / 20.0
Nominal AC Voltage L-N (V)		220 / 230
Nominal AC Frequency (Hz)		50 / 60
Switching Time (s)		Seamless
Voltage THD (%)		< 3

Efficiency	165-13007	165-13009
CEC Efficiency (%)		97.0
Max. Efficiency (%)		97.6
PV to Bat. Efficiency (%)		98.1
Bat. between AC Efficiency (%)		96.8

Protection		
PV Reverse Polarity Protection		YES
Over Current/Voltage Protection		YES
Anti-Islanding Protection		YES
AC Short Circuit Protection		YES
Residual Current Detection		YES
Ground Fault Monitoring		YES
Insulation Resistor Detection		YES
PV Arc Detection		YES
Enclosure Protect Level		IP65 / NEMA4X

General Data		
Dimensions (L x W x H, mm)		513 x 370 x 192
Weight (kg)		17
Topology		Transformerless
Cooling		Intelligent Fan
Relative Humidity		0 - 100 %
Operating Temperature Range (°C)		- 25 to 60
Operating Altitude (m)		< 4000
Noise Emission (dB)		< 25
Standby Consumption (W)		< 10
Mounting		Wall Bracket
Communication with RSD		SUNSPEC
Display & Communication Interfaces		LCD, LED, RS485, CAN, Wi-Fi, GPRS, 4G

Certification & Approvals		
		NRS97, G98/G99, EN50549-1, C10/C11, AS 4777, VDE-AR-N4105, VDE0126, IEC62040, IEC62109-1, IEC62109-2
EMC		EN61000-6-2, EN61000-6-3

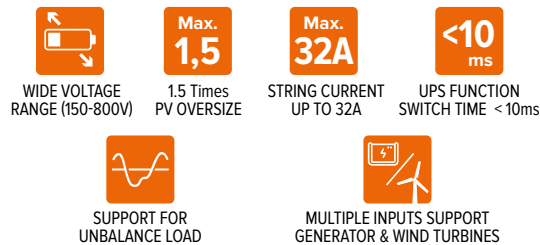
Sales points - AE SOLAR

- Tier1-> High quality raw materials, fully automated production lines, capital investment in research
- Continuous presence in the global market in over 100 countries for the last 20 years
- PV panels of dominant technologies (PERC gallium doped, TOPCon, HJT)
- Quality control of German specifications with multiple control stages
- Built-in NFC chips, the authenticity of the panels can easily be verified through a mobile app.
- Product warranty 15 years / Performance warranty 30 years
- Unique patented products such as HSF (Hot-Spot-Free) and Neptune Products for very demanding conditions such as Heterojunction Comet (low temperature power factor -0.26%/C)
- Continuous research and development of new innovative products (Hybrid Neptune, Agrivoltaics, Recycled)



Three-phase Hybrid Inverters

5, 8 & 10 kW high voltage batteries compatible (HV)



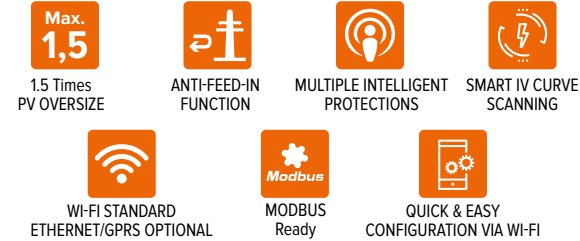
Support for uptime optimization • Adjustable modes of operation • Arc Fault Circuit Interrupter (AFCI) • Built-in Anti-feed-in function • Compact size & easy installation • Smart monitoring & remote firmware upgrade.

PV Input	165-13052	165-13054	165-13055
Max. DC Input Power (kW)	7.5	12	15
Rated DC Input Voltage (V)	620		
DC Input Voltage Range (V)	150-1000		
MPPT Voltage Range (V)	150-850		
Start-up Voltage (V)	160		
Max. DC Input Current (A)	20x2		
No. of MPPT Tracker	2		
Battery Port	165-13052	165-13054	165-13055
Battery Nominal Voltage (V)	200	300	400
Battery Voltage Range (V)	150-800		
Max. Charge/Discharge Current (A)	30		
Max. Charge/Discharge Power (W)	5.5K/5K	8.8K/8K	11K/10K
Charging Curve	3 Stages		
Compatible Battery Type	Li-ion / Lead-acid		
AC Grid Output	165-13052	165-13054	165-13055
Nominal AC Output Power (VA)	5000	8000	10000
Max. AC Input Power	7500	12000	15000
Max. AC Output Current (A)	8.5	13.5	17
Nominal AC Voltage (V)	230 / 400		
Nominal AC Frequency (Hz)	50 / 60		
Power Factor	1 (- 0.8 - 0.8)		
Current THD (%)	< 3 %		
AC Load Output (Back-up)	165-13052	165-13054	165-13055
Nominal Output Power (VA)	5000	8000	10000
Nominal Output Voltage (V)	230 / 400		
Nominal Output Frequency (Hz)	50 / 60		
Nominal Output Current (A)	7.3	11.6	14.5
Peak Output Power	5500VA, 60s	8800VA, 60s	11000VA, 60s
THDV (with linear load)	< 0.01S		
Switching Time (s)	< 3 %		

Efficiency	165-13052	165-13054	165-13055
Europe Efficiency	97.5 %		
Max. Efficiency	98.0 %	98.2 %	
Battery Charge/Discharge Efficiency	98 %		
Protection	165-13052	165-13054	165-13055
Reverse Polarity Protection	YES		
Over Current / Voltage Protection	YES		
Anti-islanding Protection	YES		
AC Short-circuit Protection	YES		
Leakage Current Detection	YES		
Ground Fault Monitoring	YES		
Grid Monitoring	YES		
Enclosure Protect Level	IP65 / NEMA6X	IP65 / NEMA8X	IP65 / NEMA9X
General Data	165-13052	165-13054	165-13055
Dimensions (H x W x D) (mm)	558 x 426 x 250 mm		
Weight (kg)	28.5kg		
Topology	Transformerless		
Cooling Concept	Natural Convection	Intelligent Fan	
Relative Humidity	0 - 100 %		
Operating Temperature Range (°C)	- 25 to 60 °C		
Operating Altitude (m)	< 4000		
Noise Emission (dB)	< 30		
Standby Consumption (W)	< 5		
Display & Communication Interfaces	LCD, LED, RS485, CAN, Wi-Fi, GPRS, 4G		
Certification & Approvals	NRS97, G98/G99, EN50549-1, C10/C11, AS 4777, VDE-AR-N4105, VDE0126, IEC62040, IEC62109-1, IEC62109-2		
EMC	EN61000-6-2, EN61000-6-3		

Single-phase Inverters

3, 4 & 5 kW



MPPT Efficiency > 99.9% • Two MPRT ports • Balancing active and reactive power • No fans • Quick and easy installation • High quality output power and low THDI.

PV Input Data	165-13030	165-13032	165-13033
Max. DC Power (W)	4500	6000	7000
Max. DC Voltage (V)	600		
MPPT Voltage Range (V)	70-550		
MPPT Full Power Voltage Range (V)	110-550	145-550	180-550
Rated Input Voltage (V)	360		
Start-up Voltage (V)	70		
Max. Input Current (A)	14 x 2		
Max. Short Current (A)	18 x 2		
No. of MPP Tracker / No. of PV String	2/2		
Input Connector Type	MC4		
AC Output Data	165-13030	165-13032	165-13033
Max. Output Power (W)	3300	4400	5500
Nominal Output Power (W)	3000	4000	5000
Max. Output Current (A)	6	12	13
Nominal Output Voltage (V)	L/N/PE, 220Vac, 230Vac, 240Vac		
Grid Voltage Range	180Vac-276Vac (According to local standard)		
Nominal Output Frequency (Hz)	50/60		
Grid Frequency Range	45-55Hz/54-66Hz (According to local standard)		
Output Power Factor	1 default (adjustable from 0.8 leading to 0.8 lagging)		
Output Current THD	<3%		
Efficiency	165-13030	165-13032	165-13033
Max. Efficiency	98.20%	98.20%	98.20%
Euro Efficiency	97.80%	97.85%	97.90%
Protection	165-13030	165-13032	165-13033
PV Reverse Polarity Protection	YES		
PV Insulation Resistance Detection	YES		
AC Short Circuit Protection	YES		
AC Over Current Protection	YES		
AC Over Voltage Protection	YES		
Anti-Islanding Protection	YES		

Protection	165-13030	165-13032	165-13033
Residual Current Detection	YES		
Over Temperature Protection	YES		
Integrated DC switch	YES		
Surge Protection	Integrated (Type III)		
Smart IV Curve Scanning	YES		
Quick Arc Fault Circuit Interruption	Optional		
General Data	165-13030	165-13032	165-13033
Dimensions (H x W x D, mm)	370 x 350 x 142		
Weight (kg)	11		
Protection Degree	IP 65		
Enclosure Material	Aluminum		
Ambient Temperature Range (°C)	-25 to 60		
Humidity Range	0-100%		
Topology	Transformerless		
Communication Interface	RS485 / WiFi / Wire Ethernet / GPRS (optional)		
Cooling Concept	Convection		
Noise Emission (db)	<28		
Night Power Consumption (W)	<1		
Max. Operation Altitude (m)	4000		
Certifications and Standards	165-13030	165-13032	165-13033
EMC Standard	EN/IEC 61000-6-2, EN/IEC 61000-6-3, EN61000-3-2, EN61000-3-3, EN61000-3-11, EN61000-3-12		
Safety Standard	IEC 60068, UL1741, EN62109		
Grid-connection	IEEE1547, CSA C22, EN50549, VDE4105, VDE0126, RD1699, ABNT NBR16149 & 16150, AS4777.2, NB/T32004, G98/G99, IEC61727		



Three-phase Inverters

5, 8, 10, 15, 20 & 25 kW



WIDE MPPT
RANGE



1.5 Times
PV OVERSIZE



MAX. LOAD
DC 1100V



UNIBODY: ONE-PIECE
ALUMINUM HOUSING



BUILD-IN PROTECTION
SPD TYPE II



SMART IV CURVE
SCANNING



REMOTE FIRMWARE
UPDATE

Quick circuit breaker (optional) • Wi-Fi • Compact design • Multiple smart precautions • Compatible with double-sided photovoltaics • Monitor PV Panel by series (strings).

PV Input Data	165-13082	165-13084	165-13085	165-13088	165-13090	165-13091
Max. DC Power (W)	7500	12000	15000	22500	3000	37500
Max. DC Voltage (V)	1100					
MPPT Voltage Range (V)	150-1000					
MPPT Full Power Voltage Range (V)	200-850	300-850	500-850			
Rated Input Voltage (V)	620					
Start-up Voltage (V)	150					
Max. Input Current (A)	15x2			20+32	32x2	
Max. Short Current (A)	25x2			30+48	48x2	
No. of MPP Tracker / No. of PV String	2 / 2			2/3	2/4	
Input Connector Type	MC4					
AC Output Data	165-13082	165-13084	165-13085	165-13088	165-13090	165-13091
Max. Output Power (W)	5500	8800	11000	16500	22000	27500
Nominal Output Power (W)	5000	8000	10000	15000	20000	25000
Max. Output Current (A)	8.5	13.5	17	27	32	40
Nominal Output Voltage (V)	3P+N+PE 230/400					
Grid Voltage Range	260Vac-519Vac (according to local standard)					
Nominal Output Frequency (Hz)	50/60					
Grid Frequency Range	45-55Hz/55-65Hz (according to local standard)					
Output Power Factor	1 default (adjustable from 0.8 leading to 0.8 lagging)					
Output Current THD	<3%					
Efficiency	165-13082	165-13084	165-13085	165-13088	165-13090	165-13091
Max. Efficiency	98.30%		98.70%			98.75%
Euro Efficiency	98.00%	98.05%	98.23%	98.23%		98.35%

Protection	165-13082	165-13084	165-13085	165-13088	165-13090	165-13091
PV Reverse Polarity Protection	YES					
PV Insulation Resistance Detection	YES					
AC Short Circuit Protection	YES					
AC Over Current Protection	YES					
AC Over Voltage Protection	YES					
Anti-Islanding Protection	YES					
Residual Current Detection	YES					
Over Temperature Protection	YES					
Integrated DC switch	YES					
Surge Protection	Integrated(Type III)					
Smart IV Curve Scanning	YES					
Quick Arc Fault Circuit Interruption	Optional					
General Data	165-13082	165-13084	165-13085	165-13088	165-13090	165-13091
Dimensions (H x W x D, mm)	510x370x167		510x370x192		535x370x192	
Weight (kg)	16	15		17	19	
Protection Degree	IP65					
Enclosure Material	Aluminum					
Ambient Temperature Range (°C)	-25 TO 60					
Humidity Range	0-100%					
Topology	Transformerless					
Communication Interface	RS485 / WiFi / Wire Ethernet / GPRS (optional)					
Cooling Concept	Convection			Intelligent fan		
Noise Emission (db)	<30			<40		<51
Night Power Consumption (W)	<1					
Max. Operation Altitude (m)	≤4000					
Certifications and Standards	165-13082	165-13084	165-13085	165-13088	165-13090	165-13091
EMC Standard	EN/IEC 61000-6-2, EN/IEC 61000-6-3, EN61000-3-2, EN61000-3-3, EN61000-3-11, EN61000-3-12					
Safety Standard	IEC 60068, UL1741, EN62109					
Grid-connection	IEEE1547, CSA C22, EN50549, VDE4105, VDE0126, RD1699, ABNT NBR16149 & 16150, AS4777.2, NB/T32004, G98/G99, IEC61727					





Three-phase Inverters 30, 40, 50 & 60 kW

- **MPPT efficiency > 99.9%**
- **Intelligent temperature control system**
- **Active and reactive power compensation, adjustable Power Factor**
- **IP 68 Cooling Fan**
- **Type II DC & AC lightning protection**
- **AC output 1.1x continuous operation**

**Max.
20A**

STRING CURRENT
UP TO 20A



MULTIPLE INTELLIGENT
PROTECTIONS

**Max.
1,5**

1.5 Times
PV OVERSIZE



ANTI-FEED-IN
FUNCTION



WI-FI STANDARD
ETHERNET/GPRS OPTIONAL



MODBUS
Ready



QUICK & EASY
CONFIGURATION VIA WI-FI

PV Input Data	165-13092	165-13094	165-13095	165-13096
Max. DC Power (W)	4500	60000	75000	90000
Max. DC Voltage (V)	1100			
MPPT Voltage Range (V)	200-1000			
MPPT Full Power Voltage Range (V)	500-850			
Rated Input Voltage (V)	620			
Start-up Voltage (V)	200			
Max. Input Current (A)	38x3		40x3	38x4
Max. Short Current (A)	48x3		48x3	48x4
No. of MPP Tracker / No. of PV String	3/6		3/7	4/8
Input Connector Type	MC4			
AC Output Data	165-13092	165-13094	165-13095	165-13096
Max. Output Power (W)	33000	44000	55000	66000
Nominal Output Power (W)	30000	40000	50000	60000
Max. Output Current (A)	48	65	80	96
Nominal Output Voltage (V)	3P+N+PE / 3P+PE 230/400			
Grid Voltage Range	260Vac-519Vac (according to local standard)			
Nominal Output Frequency (Hz)	50/60			
Grid Frequency Range	45-55Hz/54-66Hz (According to local standard)			
Output Power Factor	1 default (adjustable from 0.8 leading to 0.8 lagging)			
Output Current THD	<3%			

Efficiency	165-13092	165-13094	165-13095	165-13096
Max. Efficiency	98.50%	98.65%	98.80%	99.00%
Euro Efficiency	98.10%	98.25%	98.45%	98.50%
Protection	165-13092	165-13094	165-13095	165-13096
PV Reverse Polarity Protection	YES			
PV Insulation Resistance Detection	YES			
AC Short Circuit Protection	YES			
AC Over Current Protection	YES			
AC Over Voltage Protection	YES			
Anti-Islanding Protection	YES			
Residual Current Detection	YES			
Over Temperature Protection	YES			
Integrated DC switch	YES			
Surge Protection	Integrated(Type III)			
Smart IV Curve Scanning	YES			
Quick Arc Fault Circuit Interruption	Optional			
General Data	165-13092	165-13094	165-13095	165-13096
Dimensions (H x W x D, mm)	712 x 427 x 232			
Weight (kg)	42	43	45	51
Protection Degree	IP 65			
Enclosure Material	Aluminum			
Ambient Temperature Range (°C)	-25 to 60			
Humidity Range	0-100%			
Topology	Transformerless			
Communication Interface	RS485 / WiFi / Wire Ethernet / GPRS (optional)			
Cooling Concept	Intelligent Fan			
Noise Emission (db)	<51		<55	
Night Power Consumption (W)	<1			
Max. Operation Altitude (m)	≤ 4000			
Certifications and Standards	165-13092	165-13094	165-13095	165-13096
EMC Standard	EN/IEC 61000-6-2, EN/IEC 61000-6-3, EN61000-3-2, EN61000-3-3, EN61000-3-11, EN61000-3-12			
Safety Standard	IEC 60068, UL1741, EN62109			
Grid-connection	IEEE1547, CSA C22, EN50549, VDE4105, VDE0126, RD1699, ABNT NBR16149 & 16150, AS4777.2, NB/T32004, G98/G99, IEC61727			





Monitoring Device & Solution

Wi-Fi • Ethernet • GPRS Data Sticker

Convert your system into a smart one, easily controlled from your mobile or computer!

A well established PV solar system also needs the corresponding monitoring. Eurolamp offers the remote control accessories of Afore, so that you have full control as well as the evaluation of performance and safe operation of your investment.

External indicator lights, ensuring collection status at a glance • Plug and play, no extra power supply is required • Independent module, protecting internal parts of inverter • Waterproof design, resistant to bad weather • External design, easy to replace faulty equipment

Remote Communication Interface	4G	2.4G WiFi	GPRS	LAN
GNSS	<20m	-	-	-
Data Interface	RS485/RS232/TTL			
Working Voltage	DC 5-12V			
Working Power	3.5W	1.5W	3W	1W
SIM Card	Chip Card/MicroSIM	-	Chip Card/MicroSIM	-
Memory	8MB Flash	8MB Flash	2MB Flash	2MB Flash
Working Temperature	-40°C ~ +85°C			
Working Humidity	<90% (No Condensation)			
No. of Connections	One			
Serial Communication Rate	9600bps (1200-115200bps Configurable)			
Data Uploading Interval	Default: 5 mins (1-15 mins Configurable)			
User Configuration	BT/APP	BT/ APP/Web/Remote	Remote	Remote/Web
Firmware Upgrade	Remote	Remote/Web	Remote	Remote/Web
Real-time Control	✓	✓	✓	✓
Power-off Reminder	Configurable	Configurable	-	-



FAILURE
ALARM



PV SYTEM
INFORMATION
PUSH



MULTIPLE
SYSTEMS
IN ONE
ACCOUNT



CLOUD DATA
SYNCHRONIZATION



PC BROWSER
ANDROID & IOS



REAL-TIME/
HISTORICAL DATA
MONITORING
AND ANALYSIS



SYSTEM
INCOME
CALCULATION



Photovoltaic Systems Low Voltage Batteries

- LFP rechargeable battery A+Grade cell
- Wall mounted or floor mounted can be freely selected
- Easy extendibility (in parallel) with same units of 2,5 or 5kWh (2,5kW/5kW/7,5kW/10kW etc. or 5kW/10kW/15kW/20kW etc.
- Good compatibility, standard communication protocol CAN and RS485, compatible with most popular hybrid and off-grid inverters in the market
- IP65 protection class, suitable for outdoor and indoor installation
- Extremely long life cycle, more than 6000 times or 10 years
- High protection measures, built-in Aerosol active fire protection module, thermal runaway detection
- Plug and play installation design, no extra cables, saves installation costs

In order to achieve harmonious operation and maximum efficiency from Afore's single-phase hybrid inverters, the system's batteries play a key role. The ideal batteries for our systems are Hybess Low Voltage batteries. Cost, performance and longevity that secure your investment.

ITEM CODE	165-13200	165-13202
Usable Capacity	2.56kW	5.12kW
Voltage	51.2V	
Charge Voltage	58.4V	
Discharge Voltage Range	45-58.4V	43.2-58.4V
Max. Charging Current	25A	50A
Σνιστώμενο ρεύμα εισόδου	25A	40A
Max. Discharging Current	25A	50A
Recommended discharge	25A	40A
Max. Output Power	1280W	2560W
DOD	85%	85%
Modules Connection	1 up to 8 (in parallel)	1 up to 8 (in parallel)
IP Protection	IP65	
Working Temperature Range (°C)	Charge: 0°C ~ +55°C • Discharge: -10°C ~ +55°C	
Storage Temperature (°C)	-10°C ~ +35°C	
Cycle Life	≥ 6000 cycles, 25°C, <0.5C	
Dimension (mm)	538 x 365 x 196	536.3 x 464 x 180.5



UN38.3



Photovoltaic Systems High Voltage Batteries with PDU control unit & batteries base

- LiFeP04 rechargeable battery A+Grade cell
- Easy extendibility with same units of 2,5kWh (10kW/12,5kW/15kW/17,5kW/20kW) etc.
- Good compatibility, standard communication protocol CAN and RS485, compatible with most popular hybrid and off-grid inverters in the market
- IP65 protection class, suitable for outdoor and indoor installation
- Extremely long life cycle, more than 6000 times or 10 years
- High protection measures, built-in Aerosol active fire protection module, thermal runaway detection
- Plug and play installation design, no extra cables, saves installation costs

High Voltage photovoltaic batteries are an integral part of every photovoltaic system with Afore three-phase inverters. Hybess High Voltage batteries are the ideal complement to ensure top system performance.

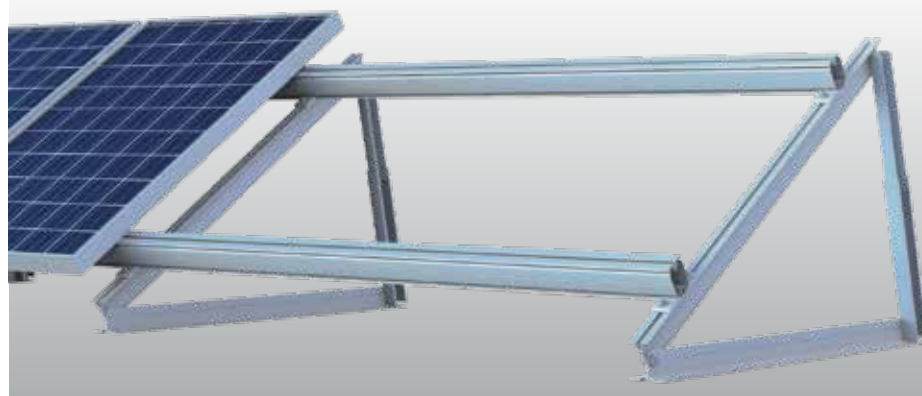
ITEM CODE	165-13220	4 Units 10kW	5 Units 12,5kW	6 Units 15kW	7 Units 17,5kW	8 Units 20kW
Capacity				52Ah		
Voltage	48V	192V	240V	288V	336V	384V
Battery Type				LiFeP04		
Connection	1P15S	1P60S	1P75S	1P90S	1P105S	1P120S
Voltage Working Range (V)	42.75 - 54.75 V	171 - 225 V	213.75 - 281.25 V	256.5V-337.5V	299.25V-393.75V	342V-450V
Working Temperature Range (°C)	Charge: 0°C - +55°C • Discharge: -20°C - +60°C					
Nominal Capacity (kWh)	2.496 kWh	9.984 kWh	12.48 kWh	14.976 kWh	17.472 kWh	19.968 kWh
Max. Charging Current	35A					
Max. Discharging Current	35A					
Weight	≈23.5kg	≈105kg	≈129kg	≈152.3kg	≈175.5kg	≈199.5kg
Dimension (mm)	220 x 606 x 170	220 x 606 x 900	220 x 606 x 1070	220 x 606 x 1240	220 x 606 x 1410	220 x 606 x 1580
IP Protection	IP65					
Storage Temperature (°C)	-10°C - +35°C					
Cycle Life	Cycle Life >6000, 25°C, 85%DOD					



Photovoltaic Panels Mounting Bases

Eurolamp in collaboration with Alumil offers a wide range of certified photovoltaic panel support systems.

Designed for the installation of all sizes and various technologies of photovoltaic panels as well as a multitude of different layouts. The systems are manufactured and designed according to Eurocodes 1,2 & 9, as well as the Greek Anti-Seismic Regulation (EAK-2000). They are certified by TUV Hellas with a 20-year warranty.

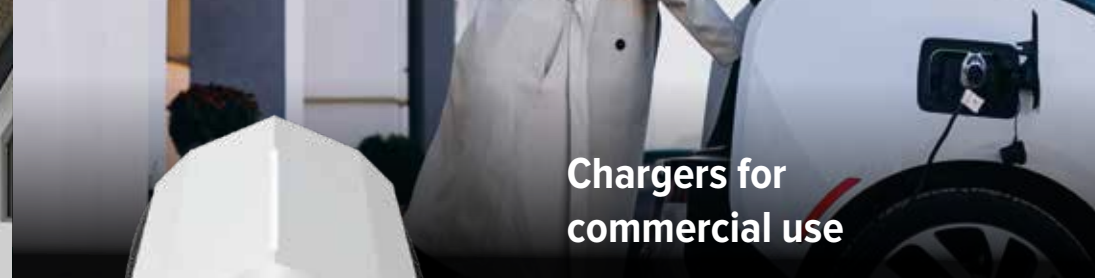


20 YEARS
PERFORMANCE
GUARANTEE



SOLA

Chargers for Electric Vehicles



Chargers for commercial use

Home solution to electric vehicle charging

Single phase with plastic cover

- Ability to change color
- Power setting
- RFID reader
- T2/T1 cable
- App for Android / iOS
- Protection RCD
- LED backlight
- DLM
- Wi-fi connection

KW
7.4

WIRE
T2/T1
32A

LED

DLM

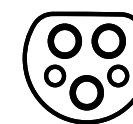
WiFi

**App
FREE**

**POWER
ON** | **SOLA**



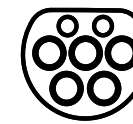
Type1



Type 1 cable in-
stead of socket
(cable 5 m)



Type2



Type 2 cable instead
of a socket
(cable 5 m)

EUROLAMP CODE	DESCRIPTION
165-50070 ⁽¹⁾	SOLA CHARGER FOR HOME USE SINGLE-PHASE WITH PLASTIC COVER 7.4 KW - SOLA-AC-7.4-F-T2/T1
165-50071 ⁽²⁾	SOLA CHARGER FOR HOME USE SINGLE-PHASE WITH PLASTIC COVER 7.4 KW - SOLA-AC-7.4-F-T2/T1-I
165-50072 ⁽³⁾	SOLA CHARGER FOR HOME USE SINGLE-PHASE WITH PLASTIC COVER 7.4 KW - SOLA-AC-7.4-F-T2/T1-PW
165-50073 ⁽⁴⁾	SOLA CHARGER FOR HOME USE SINGLE-PHASE WITH PLASTIC COVER 7.4 KW - SOLA-AC-7.4-F-T2/T1-R
165-50074 ⁽⁵⁾	SOLA CHARGER FOR HOME USE SINGLE-PHASE WITH PLASTIC COVER 7.4 KW - SOLA-AC-7.4-F-T2/T1-PWRI
165-50077 ⁽⁶⁾	SOLA CHARGER FOR DOMESTIC USE SINGLE PHASE WITH PLASTIC COVER AC-7.4-F-T2/T1-PWR

⁽¹⁾ CABLE T2/T1 32A , LED DLM (DYNAMIC LOAD MANAGEMENT)

⁽²⁾ CABLE T2/T1 32A , LED, DLM (DYNAMIC LOAD MANAGEMENT), RFID

⁽³⁾ CABLE T2/T1 32A , LED DLM (DYNAMIC LOAD MANAGEMENT), power measurement, WIFI , FREE APP

⁽⁴⁾ CABLE T2/T1 32A , LED DLM (DYNAMIC LOAD MANAGEMENT), Electronic protection RCD B

⁽⁵⁾ CABLE T2/T1 32A, LED, DLM (DYNAMIC LOAD MANAGEMENT), power measurement, WIFI, Electronic protection RCD B, RFID, free app)

⁽⁶⁾ CABLE T2/T1 32A , LED DLM (DYNAMIC LOAD MANAGEMENT power measurement, WIFI , FREE APP , Electronic protection RCD B

Chargers for commercial use

Home solution to electric vehicle charging

Three-phase

- Connection wi-fi SOLA Bridge
- 3.5"-5" screen with personalized graphic, with orders over 10 pieces
- Choice of color and shape
- RFID αναγνώστης
- LED backlight
Possibility of placing any graphic according to specific projects
- RCD protection
- Position for type 2 cable, power up to 22 kw
- RS485 MODBUS
- App for Android / iOS

WIRE
T2/T1
32A

LED

RCD

WiFi

App
FREE

POWER
ON | SOLA

5 year warranty

Adjustment range power

Electronic surge protection

EV CLOUD

DLM SYSTEM

Smart functions

Power sensor

Temperature sensor

Connecting to monitor spektr

Overload Protection

EUROLAMP CODE	DESCRIPTION
165-50075 ⁽¹⁾	SOLA CHARGER THREE PHASE CHARGER FOR DOMESTIC USE 11KW SOLA-AC-11-T2C-F-PRWID WITH DISPLAY
165-50076 ⁽²⁾	SOLA CHARGER THREE PHASE CHARGER FOR DOMESTIC USE 22KW SOLA-AC-22-F-T2C PRWI WITHOUT DISPLAY
165-50078	SOLA CHARGER THREE PHASE CHARGER FOR DOMESTIC USE 11KW SOLA-AC-11-T2C-F-PRWID WITHOUT DISPLAY
165-50079	SOLA CHARGER THREE PHASE CHARGER FOR DOMESTIC USE 22KW SOLA-AC-22-F-T2C PRWI WITH DISPLAY

⁽¹⁾ CABLE Type 2 2 cable - 22 kW, WALL MOUNTED CABLE, WIFI, 3.5" DISPLAY, Electronic protection RCD B, Power measurement (current sensor) for Type 2

⁽²⁾ CABLE Type 2 2 cable - 22 kW, WALL MOUNTED CABLE, LED, DLM (DYNAMIC LOAD MANAGEMENT), RFID, WiFi, surge protection, Free Cloud and Application

CHARACTERISTICS OF CHARGER MODELS

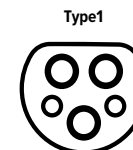
MODELS	165-50075	165-50076	165-50078	165-50079
Input Voltage / Output Voltage (V)	400	400	400	400
Maximum power (KW)	4.1 - 11	11 - 22	11 - 22	11 - 22
Type of power	AC/3-Phase	AC/3-Phase	AC/3-Phase	AC/3-Phase
Frequency(Hz)				
Maximum current (A)	6-16	16-32	16-32	16-32
Placement	Floor Mounted Placement			
Degree of protection	IP54 / IK10			
Operating Temperature Value Range (C°)	-25° ~ +50 °C			
Cable length-type1.2(m)	5m			
Dimensions (mm)	410 x 256 x 154			
Weight(kg)	< 10			



Electromechanical Lock
Type 2 Socket Protection



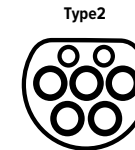
Type 1 cable in-
stead of socket
(cable 5 m)



Type1



Type 2 cable instead
of a socket
(cable 5 m)



Type2

ADDITIONAL EQUIPMENT

- » Wall base for the cable
- » Electromechanical protection for T2 socket
- » Wi-Fi sola bridge (for better functionality there should be a current sensor)
- » Sensor for measuring current and power
- » Sensor for current and power measurement for T2 type cable
- » RCD B electronic protection
- » OCCP 1.6

ABILITY TO ADJUST ACCORDING TO YOUR NEEDS



Case Type A with cable

Chargers for commercial use

For commercial use

Three-phase with one or two supplies

-  SOLA Bridge 3G/4G/LAN wi-fi connection
-  10" screen with personalized graphics
-  Choice of color and shape
-  RFID reader
-  LED backlight
Ability to create different graphics
-  Protection RCD B + ELECTRONIC RCD 30 mA (AC) +6mA (DC)
-  2 sockets or cable type 2 up to 22kw
-  RS485 MODBUS



The station has an additional differential and in case of damage due to a car defect does not exclude the charging station from further use.



Premium

Ecoline

WIRE
T2/T1
32A

LED

RFID

WiFi

POWER
ON | SOLA

-  5 year warranty
-  Adjustment range power
-  Electronic surge protection
-  EV CLOUD
-  OCPP 1.6
-  Smart functions
-  Power sensor
-  Temperature sensor
-  Connecting to monitor spektr
-  Overload Protection

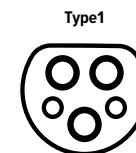
EUROLAMP CODE	DESCRIPTION
165-50090	SOLA CHARGER PREMIUM FOR COMMERCIAL USE -THREE PHASE 22KW- WITH ONE SUPPLY -SOLA-AC-22-P
165-50091	SOLA CHARGER PREMIUM FOR COMMERCIAL USE -THREE-PHASE 44KW- WITH TWO SUPPLIES - SOLA-AC-44-P
165-50092	SOLA CHARGER ECOLINE FOR COMMERCIAL USE -THREE PHASE 22KW- WITH ONE SUPPLY -SOLA-AC-22-P WITH SOCKET
165-50093	SOLA CHARGER ECOLINE FOR COMMERCIAL USE -THREE PHASE 44KW- WITH TWO SUPPLIES -SOLA-AC-44-P WITH SOCKET

CHARACTERISTICS OF CHARGER MODELS FOR COMMERCIAL USE (PREMIUM CASE)

MODELS	165-50090	165-50091
Maximum power (KW)	22	44
Connection type	1 x Type2	2 X Type 2
Cable type	22	22
Input Voltage / Output Voltage (V)	400	
Type of power	AC/ 3 - Phase	
Placement	Floor	
Degree of protection	IP54/ IK10	
Operating temperature range(OC)	-25 to +50	
Dimensions (mm)	1600X 495 X 330	
Weight(kg)	< 50	



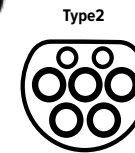
Type 1 cable instead of socket (cable 5 m)



Type1



Type 2 cable instead of a socket (cable 5 m)



Type2

ADDITIONAL EQUIPMENT

- » T2 22kW cable (4-5m cable). 7.4kW T1 cable (4-5m cable).
- » RFID - Radio Frequency Identification System, MiD commercial

CHARACTERISTICS OF CHARGER MODELS FOR COMMERCIAL USE (ECOLINE CASE)

MODELS	165-50092	165-50093
Maximum power (KW)	22	44
Connection type	1 x Type2	2 X Type 2
Cable type	22	22
Input Voltage / Output Voltage (V)	400	
Type of power	AC/ 3 - Phase	
Placement	Floor	
Degree of protection	IP54/ IK10	
Operating Temperature Value Range(CO)	-25 to +50	
Dimensions (mm)	1578 X 375 X 225	
Weight(kg)	< 50	



Chargers for commercial use

For commercial use

Three-phase

- SOLA Bridge 3G/4G/LAN wi-fi connection
- 10" screen with customized graphics
- Choice of color and shape
- RFID reader
- Possibility of logo application
- Emergency stop button
- Compatible css connectors
Type1 -120kW / css Type2 - 120kW Type 1 - 7.4kW / Type 2 - 22kW, CHAdeMo- 50kW
- Charge level



The station has an additional differential and in case of damage due to a car defect does not exclude the charging station from further use.

WIRE
T2/T1
32A

RFID

WiFi

POWER
ON | SOLA



5 year warranty



Adjustment range power



Electronic surge protection



RS485 MODBUS



Power sensor



Temperature sensor



Connecting to monitor spektr



Overload Protection



Available with 2 types of Inverter

- Huawei
- SiconEmi

EUROLAMP CODE	DESCRIPTION
165-50100	SOLA CHARGER FOR COMMERCIAL USE -THREE PHASE 60KW- SOLA -DC-60
165-50102	SOLA CHARGER FOR COMMERCIAL USE -THREE PHASE 120KW- SOLA -DC-120
165-50103	SOLA CHARGER FOR COMMERCIAL USE -THREE PHASE 140KW- SOLA -DC-140 DUO
165-50104	SOLA CHARGER FOR COMMERCIAL USE -THREE PHASE 180KW- SOLA -DC-180 DUO

CHARACTERISTICS OF CHARGER MODELS FOR COMMERCIAL USE (AC/DC)

MODELS	165-50100	165-50102	165-50103	165-50104
Output Power (Kw)	60	120	140	180
DC Voltage Range (V)	(200-1000)200-550			
Connector Type	Chademo / CSS2) + Type 2		Chademo + CSS2 + Type 2	
Maximum AC output power (Kw)	22			
Number of electric cars charging at the same time	Simultaneous charging of 2 cars on one side DC (Chademo or CSS 2) and on the other side AC (Type 2)		Simultaneous charging of 2 cars on one side DC (Chademo or CSS 2) and on the other side AC (Type 2)	
Type of power	AC/ 3 - Phase			
Placement	Floor mounted			
Degree of protection	IP54/ IK10			
Rated Voltage (V)	400			
Frequency (Hz)	50			
Case	Vandal-proof case (powder coated. UV-resistant)			
Interface	OCPP 1.6J			
Operating temperature range (°C)	-25 to + 50			
LSD Dimensions (mm)	10” or more (Optional)			
Contact/Access Location	3G 4G WiFi / LAN			
Connectivity	5m (CHADEMO, CCS, Combo2, Type 2)			

ADDITIONAL FEATURES

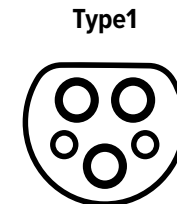
- Vertical assembly
- Vandal protection metal surface IK10 / IP54
- Includes cables up to 5 meters for each port
- 3 ways to connect. Via user interface, via RFID, remotely via station operation application
- The ability to adjust the charging power is provided
- Integration with all market manufacturers, full support of OCPP 1.6 with profiles (4G/LAN)
- Housing in color and illuminated logo on the surface and screen with the customer's logo



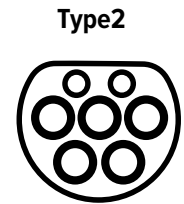
Type 1 cable instead of socket (cable 5 m)



Type 2 cable instead of a socket (cable 5 m)



Type1



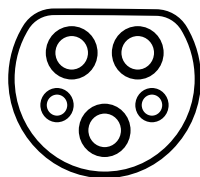
Type2

Cables for electric vehicle chargers

For commercial and residential use



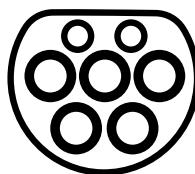
Type1



Type 1 cable instead of socket
(cable 5 m)



Type2



Type 2 cable instead of a socket
(cable 5 m)

OPTIONAL EQUIPMENT

EUROLAMP CODE	DESCRIPTION
165-50200	CABLE TYPE 2-22KW (CABLE 5M)
165-50202	CABLE TYPE 1-8KW (CABLE 5M)
165-50204	WALL BRACKET FOR THE CABLE
165-50205	ELECTROMECHANICAL PROTECTION FOR TYPE 2 CABLE
165-50206	WI-FI MODULE, SOLA BRIDGE
165-50207	3.5" SCREEN
165-50208	10" SCREEN
165-50209	RFID CARD
165-50210	POWER COUNT (CURRENT SENSOR) TYPE 2
165-50211	POWER COUNT (CURRENT SENSOR) TYPE 1
165-50212	RCDB PROTECTION
165-50213	COMMERCIAL MID (FOR ON OUTPUT)



Eurolamp electric vehicle charging stations

Eurolamp offers complete charging solutions from **7.4kw** to **180kw**.

With an ergonomic and modern design as well as integrated overvoltage protection, they provide maximum charging security. They have a built-in energy meter and DLM (Dynamic Load Management) that allows proper load management-distribution when it is necessary.

- With the simple mobile application of EVziin ©, Eurolamp chargers give you the capability of invoicing using your card easily, reliably and safely.
- Easy access to the nearest charging point with the push of a button.
- Possibility of reserving a specific charging point

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