



Rendementmakers



Technische informatie & specificaties



Opwekken & inkopen



Opslaan & besparen



Verkopen & verdienen



Groeien ondanks netcongestie



Noodstroom & bedrijfszekerheid



Peakshaving & aansluiting verkleinen



Voorkom terugleverboete



Voorkom boete netbeheerder

Gestapelde batterijen

3-fase hoge voltage
10.44 – 36.54 kWh



Veiligheid

Altilia gebruikt Lithium-ijzerfosfaat (LiFePO₄) batterijen. LiFePO₄-batterijen staan bekend om hun stabiliteit, veiligheid en lange levensduur.



BMS (Batterij Management Systeem)

Iedere stapel is voorzien van een intelligent BMS systeem. Deze module regelt de laadstromen, temperatuur en zorgt voor de veiligheid.



Modulair design

De batterijcapaciteit is dankzij het modulaire design ook later uitbreidbaar. Dit type gestapelde batterijen varieert van 15,66 tot 36,56 kW. Ook is het mogelijk om meerdere stapels naast elkaar te zetten om indien nodig een grote opslagcapaciteit te realiseren.



Levensduur

De levensduur van de accu's wordt uitgedrukt in laadcycli. Een cyclus bestaat uit twee fasen: een laad- en een ontladfase. De levensduur van de Altilia Accu's is 6.000 cycles. Uitgaande van eenmaal per dag laden en ontladen betreft dit een periode van 16 jaar.



Dynamische SOC Calibratie

Het BMS is verantwoordelijk voor het nauwkeurig monitoren, regelen en beheren van de ladingstoestand van een batterij gedurende zijn levensduur. Het doel van een dynamisch SOC-beheer is om ervoor te zorgen dat de batterij efficiënt wordt gebruikt, veilig blijft en een maximale levensduur behoudt.

Technische specificaties

| Model: Altilia-LFP-HV | | | | | | |
|-------------------------------------|----------------------------|-------------------|-------------------|--------------------|--------------------|--------------------|
| Aantal accu's | 2 | 3 | 4 | 5 | 6 | 7 |
| Maximale opslagcapaciteit (kWh) | 10.44 | 15.67 | 20.99 | 26.11 | 31.33 | 36.56 |
| Maximaal bruikbare capaciteit (kWh) | 9.92 | 14.88 | 19.85 | 24.81 | 29.77 | 34.73 |
| Voltage (V) | 102.4 | 153.6 | 204.8 | 256 | 307.2 | 358.4 |
| Nominale laadspanning (V) | 115.2 | 172.8 | 230.4 | 288 | 345.6 | 403.2 |
| Maximaal laad-/ontlaadstroom (A) | 50 | 50 | 50 | 50 | 50 | 50 |
| Ontlading afsnijspanning (V) | 89.6 | 134.4 | 179.2 | 224 | 268.8 | 313.6 |
| Batterij efficiëntie | 95% | 95% | 95% | 95% | 95% | 95% |
| Maximaal aanbevolen DOD | 95% | 95% | 95% | 95% | 95% | 95% |
| Communicatie | RS485/CAN | RS485/CAN | RS485/CAN | RS485/CAN | RS485/CAN | RS485/CAN |
| IP waarde | IP55 | IP55 | IP55 | IP55 | IP55 | IP55 |
| Charge temperatuur | 0 - 50 °C | 0 - 50 °C | 0 - 50 °C | 0 - 50 °C | 0 - 50 °C | 0 - 50 °C |
| Discharge temperatuur | - 20 - 50 °C | - 20 - 50 °C | - 20 - 50 °C | - 20 - 50 °C | - 20 - 50 °C | - 20 - 50 °C |
| Hoogte | <5.000m | <5.000m | <5.000m | <5.000m | <5.000m | <5.000m |
| Vochtigheid | 5% -95% | 5% -95% | 5% -95% | 5% -95% | 5% -95% | 5% -95% |
| Garantie | 10 jaar | 10 jaar | 10 jaar | 10 jaar | 10 jaar | 10 jaar |
| Afmetingen | 720*420* 608mm | 720*420* 758mm | 720*420* 908mm | 720*420* 1058mm | 720*420* 1208mm | 720*420* 1358mm |
| Netto gewicht | 113 kg | 163 kg | 213 kg | 263 kg | 313 kg | 363 kg |
| Certificaten | CE, IEC62619, UN38.3, MSDS | | | | | |

Modulair gestapeld energieopslagsysteem



Configureer zelf uw energieopslagsysteem op onze website en krijg direct inzicht in de kosten. Dankzij ons modulaire systeem kunt u indien gewenst op een later moment een of meerdere bakken toevoegen om uw opslag te vergroten. Heeft u meer opslag nodig dan een toren? Het is mogelijk om meerdere torens te koppelen zodat ook aan uw behoefte kan worden voldaan.

Technische specificaties

3-fase omvormers hoge voltage



| PV Input | ALTO3KW | ALTO5KW | ALTO8KW | ALTO10KW |
|-----------------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| Max. DC Input Power (kW) | 5 | 7.5 | 12 | 15 |
| Max. PV Voltage (V) | 1000 | 1000 | 1000 | 1000 |
| Rated DC Input Voltage (V) | 620 | 620 | 620 | 620 |
| DC Input Voltage Range (V) | 150-1000 | 150-1000 | 150-1000 | 150-1000 |
| MPPT Voltage Range (V) | 150-850 | 150-850 | 150-850 | 150-850 |
| Full MPPT Range (V) | 200-850 | 200-850 | 300-850 | 500-850 |
| Start-up Voltage (V) | 160 | 160 | 160 | 160 |
| Max. DC Input Current (A) | 20x2 | 20x2 | 20x2 | 20x2 |
| Max. Short Current (A) | 30x2 | 30x2 | 30x2 | 30x2 |
| No. of MPPT Trackers / Strings | 2/2 | 2/2 | 2/2 | 2/2 |
| Battery Port | | | | |
| Battery Nominal Voltage (V) | 100 | 100 | 200 | 250 |
| Battery Voltage Range (V) | 80-80 | 80-80 | 80-80 | 120-650 |
| Max. Charge/Discharge Current (A) | 50 | 50 | 50 | 50 |
| Max. Charge/Discharge Power (kW) | 3 | 5 | 8 | 10 |
| Charging Curve | 3 stages | 3 stages | 3 stages | 3 stages |
| Compatible Battery Type | Li-ion battery | Li-ion battery | Li-ion battery | Li-ion battery |
| AC Grid | | | | |
| Nominal AC Output Power (kW) | 3 | 5 | 8 | 10 |
| Max. AC Input/Output Power (kVA) | 4.5/3.3 | 7.5/5.5 | 12/8.8 | 15/11 |
| Max. AC Output Current (A) | 5.3 | 8.5 | 13.5 | 17 |
| Nominal AC Voltage (V) | 230 / 400 | 230 / 400 | 230 / 400 | 230 / 400 |
| Nominal AC Frequency (Hz) | 50 / 60 | 50 / 60 | 50 / 60 | 50 / 60 |
| Power Factor | 1 (-0.8 ~ 0.8) adjustable | 1 (-0.8 ~ 0.8) adjustable | 1 (-0.8 ~ 0.8) adjustable | 1 (-0.8 ~ 0.8) adjustable |
| Current THD (%) | < 3 % | < 3 % | < 3 % | < 3 % |
| AC Load Output (Back-up) | | | | |
| Nominal Output Power (VA) | 3000 | 5000 | 8000 | 10000 |
| Nominal Output Voltage (V) | 230 / 400 | 230 / 400 | 230 / 400 | 230 / 400 |
| Nominal Output Frequency (Hz) | 50 / 60 | 50 / 60 | 50 / 60 | 50 / 60 |
| Nominal Output Current (A) | 4.4 | 7.3 | 11.6 | 14.5 |
| Peak Output Power | 3300VA, 80s | 5500VA, 60s | 8800VA, 60s | 11000VA, 60s |
| THDV (with linear load) | < 3 % | < 3 % | < 3 % | < 3 % |
| Switching Time (ms) | < 10 | < 10 | < 10 | < 10 |



| | ALTO3KW | ALTO5KW | ALTO8KW | ALTO10KW |
|-------------------------------------|---|-----------------|-----------------|-----------------|
| Efficiency | | | | |
| Europe Efficiency | 97.50% | 97.50% | 97.50% | 97.50% |
| Max. Efficiency | 98.00% | 98.00% | 98.20% | 98.20% |
| Battery Charge/Discharge Efficiency | 98.00% | 98.00% | 98.00% | 98.00% |
| Protection | | | | |
| Reverse Polarity Protection | Yes | Yes | Yes | Yes |
| Over Current / Voltage Protection | Yes | Yes | Yes | Yes |
| Anti-islanding Protection | Yes | Yes | Yes | Yes |
| AC Short-circuit Protection | Yes | Yes | Yes | Yes |
| Leakage Current Detection | Yes | Yes | Yes | Yes |
| Ground Fault Monitoring | Yes | Yes | Yes | Yes |
| Grid Monitoring | Yes | Yes | Yes | Yes |
| Enclosure Protect Level | IP65 | IP65 | IP65 | IP65 |
| General Data | | | | |
| Dimensions (W x H x D, mm) | 558 x 535 x 260 | 558 x 535 x 260 | 558 x 535 x 260 | 558 x 535 x 260 |
| Weight | 29 kg | 29 kg | 29 kg | 29 kg |
| Topology | Transformerless | Transformerless | Transformerless | Transformerless |
| Cooling Concept | Intelligent Fan | Intelligent Fan | Intelligent Fan | Intelligent Fan |
| Relative Humidity (%) | 0-100% | 0-100% | 0-100% | 0-100% |
| Operating Temperature Range (°C) | -25 to 60 | -25 to 60 | -25 to 60 | -25 to 60 |
| Operating Altitude (m) | < 4000 | < 4000 | < 4000 | < 4000 |
| Noise Emission (dB) | < 30 | < 30 | < 40 | < 30 |
| Standby Consumption (W) | < 5 | < 5 | < 5 | < 5 |
| Display & Communication interfaces | LCD, LED, RS485, CAN, Wi-Fi, GPRS, 4G | | | |
| Certification & Approvals | NRS097, G98/G99, EN50549-1 (CI), AS4777.2, VDE-AR-N4105, VDE0126, EC62109-1, IEC62109-2 | | | |
| EMC | EN61000-6-2, EN61000-6-3 | | | |



Heb je vragen over onze omvormers?

Neem dan contact op met onze experts.

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Technische specificaties

3-fase omvormers hoge voltage



| PV Input | ALTO15KW | ALTO20KW | ALTO30KW |
|-----------------------------------|------------------------------|------------------------------|------------------------------|
| Max. DC Input Power (kW) | 22.5 | 30 | 45 |
| Max. PV Voltage (V) | 1000 | 1000 | 1000 |
| Rated DC Input Voltage (V) | 620 | 620 | 620 |
| DC Input Voltage Range (V) | 150-1000 | 150-1000 | 150-1000 |
| MPPT Voltage Range (V) | 150-850 | 150-850 | 150-850 |
| Full MPPT Range (V) | 500-850 | 500-850 | 500-850 |
| Start-up Voltage (V) | 160 | 160 | 160 |
| Max. DC Input Current (A) | 20x3 | 32x2 | 40x2 |
| Max. Short Current (A) | 30+48 | 48x2 | 60x2 |
| No. of MPPT Trackers / Strings | 2/3 | 2/4 | 2/4 |
| Battery Port | | | |
| Battery Nominal Voltage (V) | 500 | 500 | 550 |
| Battery Voltage Range (V) | 120-650 | 120-650 | 120-650 |
| Max. Charge/Discharge Current (A) | 50 | 50 | 60 |
| Max. Charge/Discharge Power (kW) | 15 | 20 | 30 |
| Charging Curve | 3 stages | 3 stages | 3 stages |
| Compatible Battery Type | Li-ion battery | Li-ion battery | Li-ion battery |
| AC Grid | | | |
| Nominal AC Output Power (kW) | 15 | 20 | 30 |
| Max. AC Input/Output Power (kVA) | 22.5/16.5 | 30/22 | 45/33 |
| Max. AC Output Current (A) | 27 | 32 | 48 |
| Nominal AC Voltage (V) | 230 / 400 | 230 / 400 | 230 / 400 |
| Nominal AC Frequency (Hz) | 50 / 60 | 50 / 60 | 50 / 60 |
| Power Factor | 1 (-0.8 ~ 0.8) adjustable | 1 (-0.8 ~ 0.8) adjustable | 1 (-0.8 ~ 0.8) adjustable |
| Current THD (%) | < 3 % | < 3 % | < 3 % |
| AC Load Output (Back-up) | | | |
| Nominal Output Power (VA) | 15000 | 20000 | 30000 |
| Nominal Output Voltage (V) | 230 / 400 | 230 / 400 | 230 / 400 |
| Nominal Output Frequency (Hz) | 50 / 60 | 50 / 60 | 50 / 60 |
| Nominal Output Current (A) | 21.8 | 29 | 43.5 |
| Peak Output Power | 16,500VA, 60s | 22,000VA, 60s | 33,000VA, 60s |
| THDV (with linear load) | < 3 % | < 3 % | < 3 % |
| Switching Time (ms) | < 10 | < 10 | < 10 |



| Efficiency | ALTO15KW | ALTO20KW | ALTO30KW |
|---|---|-----------------|-----------------|
| Europe Efficiency | 97.50% | 97.80% | 97.80% |
| Max. Efficiency | 98.30% | 98.30% | 98.50% |
| Battery Charge/Discharge Efficiency | 98.00% | 98.00% | 98.00% |
| Protection | | | |
| Reverse Polarity Protection | Yes | Yes | Yes |
| Over Current / Voltage Protection | Yes | Yes | Yes |
| Anti-islanding Protection | Yes | Yes | Yes |
| AC Short-circuit Protection | Yes | Yes | Yes |
| Leakage Current Detection | Yes | Yes | Yes |
| Ground Fault Monitoring | Yes | Yes | Yes |
| Grid Monitoring | Yes | Yes | Yes |
| Enclosure Protect Level | IP65 | IP65 | IP65 |
| General Data | | | |
| Dimensions (W x H x D, mm) | 558 x 535 x 260 | 558 x 535 x 260 | 558 x 535 x 260 |
| Weight | 29 kg | 29 kg | 29 kg |
| Topology | Transformerless | Transformerless | Transformerless |
| Cooling Concept | Intelligent Fan | Intelligent Fan | Intelligent Fan |
| Relative Humidity (%) | 0~100% | 0~100% | 0~100% |
| Operating Temperature Range (°C) | -25 to 60 °C | -25 to 60 °C | -25 to 60 °C |
| Operating Altitude (m) | < 4000 | < 4000 | < 4000 |
| Noise Emission (dB) | < 40 | < 40 | < 40 |
| Standby Consumption (W) | < 5 | < 5 | < 5 |
| Display & Communication interfaces | LCD, LED, RS485, CAN, Wi-Fi, GPRS, 4G | | |
| Certification & Approvals | NRS097, G98/G99, EN50549-1 (CI), AS4777.2, VDE-AR-N4105, VDE0126, EC62109-1, IEC62109-2 | | |
| EMC | EN61000-6-2, EN61000-6-3 | | |



Wist je dat het vermogen van een omvormer van belang is om:

- voldoende vermogen te hebben om te peakshaven
- bij lage en hoge prijzen snel te kunnen in- en verkopen
- voldoende power beschikbaar beschikbaar te hebben bij stroomuitval

Technische specificaties

1-fase omvormers lage voltage



| PV Input | ALTO2.5K-SL-1 | ALTO4K-SL | ALTO5K-SL |
|-----------------------------------|---|-------------------------|-------------------------|
| Max. DC Input Power (kW) | 3.8 | 6.0 | 7.5 |
| Max. PV Voltage (V) | 550 | 550 | 1000 |
| MPPT Range (V) | 620 | 620 | 620 |
| Full MPPT Range (V) | 80-500 | 120-500 | 150-500 |
| Nominal Voltage (V) | 360 | 360 | 360 |
| Start-up Voltage | 100 | 100 | 100 |
| Max. DC Input Current (A) | 18.5 x 1 | 18.5 x 2 | 18.5 x 2 |
| Max. Short Current (A) | 26 x 1 | 26 x 2 | 26 x 2 |
| No. of MPPT Tracker / Strings | 1/1 | 2/2 | 2/2 |
| Battery Port | | | |
| Battery Nominal Voltage (V) | 512 | 512 | 512 |
| Battery Voltage Range (V) | 40-60 | 40-60 | 40-60 |
| Max. Charge/Discharge Current (A) | 63 | 80 | 80 |
| Max. Charge/Discharge Power (kW) | 2.5 | 4.0 | 4.0 |
| Compatible Battery Type | Li-ion / Lead-acid etc. | Li-ion / Lead-acid etc. | Li-ion / Lead-acid etc. |
| Compatible Battery Type | Li-ion battery | Li-ion battery | Li-ion battery |
| AC Grid | | | |
| Max Continuous Current (A) | 2.0 | 18.0 | 23.0 |
| Max Continuous Power (kVA) | 2.5 | 4.0 | 5.0 |
| Nominal Grid Current (A) | 11.4/10.9 | 18.2/17.4 | 22.8/21.8 |
| Nominal Grid Voltage (V) | 198 to 242 @ 220 / 207 to 253 @ 230 | | |
| Nominal AC Frequency (Hz) | 50 / 60 | 50 / 60 | 50 / 60 |
| Power Factor | 0.999 (Adjustable from 0.8 overexcited to 0.8 underexcited) | | |
| Current THD (%) | < 3 % | < 3 % | < 3 % |
| AC Load Output | | | |
| Max Continuous Current (A) | 12.0 | 18.0 | 23.0 |
| Max Continuous Power (kVA) | 2.5 | 4.0 | 5.0 |
| Max Peak Current (A) (10min) | 17.3 / 16.8 | 27.3 / 26.1 | 34.1 / 32.7 |
| Max Peak Power (kVA) (10min) | 2.5 | 6.0 | 7.5 |
| Nominal AC Voltage L-N (V) | 220 / 230 | 220 / 230 | 220 / 230 |
| Nominal AC Frequency (Hz) | 50 / 60 | 50 / 60 | 50 / 60 |
| Switching Time (ms) | Seamless | Seamless | Seamless |
| Voltage THD (%) | < 3 % | < 3 % | < 3 % |



| Efficiency | ALTO2.5K-SL-1 | ALTO4K-SL | ALTO5K-SL |
|---|--|-----------------|-----------------|
| CEC Efficiency (%) | 97.0 | 97.0 | 97.0 |
| Max. Efficiency (%) | 97.6 | 97.6 | 97.6 |
| PV to Bat. Efficiency (%) | 98.1 | 98.1 | 98.1 |
| Bat. between AC Efficiency (%) | 96.8 | 96.8 | 96.8 |
| Protection | | | |
| PV Reverse Polarity Protection | Yes | Yes | Yes |
| Over Current / Voltage Protection | Yes | Yes | Yes |
| Anti-islanding Protection | Yes | Yes | Yes |
| AC Short-circuit Protection | Yes | Yes | Yes |
| Residual Current Detection | Yes | Yes | Yes |
| Ground Fault Monitoring | Yes | Yes | Yes |
| PV Arc Detection | Yes | Yes | Yes |
| Enclosure Protect Level | IP65 / NEMA4X | IP65 / NEMA4X | IP65 / NEMA4X |
| General Data | | | |
| Dimensions (W x H x D, mm) | 370 x 535 x 192 | 370 x 535 x 192 | 370 x 535 x 192 |
| Weight | 18.5 kg | 18.5 kg | 18.5 kg |
| Topology | Transformerless | Transformerless | Transformerless |
| Cooling Concept | Intelligent Fan | Intelligent Fan | Intelligent Fan |
| Relative Humidity (%) | 0-100% | 0-100% | 0-100% |
| Operating Temperature Range (°C) | -25 to 60 °C | -25 to 60 °C | -25 to 60 °C |
| Operating Altitude (m) | < 4000 | < 4000 | < 4000 |
| Noise Emission (dB) | < 25 | < 25 | < 25 |
| Standby Consumption (W) | < 10 | < 10 | < 10 |
| Display & Communication interfaces | LCD, LED, RS485, CAN, Wi-Fi, GPRS, 4G | | |
| Certification & Approvals | NRS097, G98, EN50549-1, C10/C11, AS4777.2, VDE-AR-N4105, VDE0126, IEC62109-1, IEC62109-2 | | |
| EMC | EN61000-6-2, EN61000-6-3 | | |

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Heb je vragen over onze omvormers?

Neem dan contact op met onze experts.



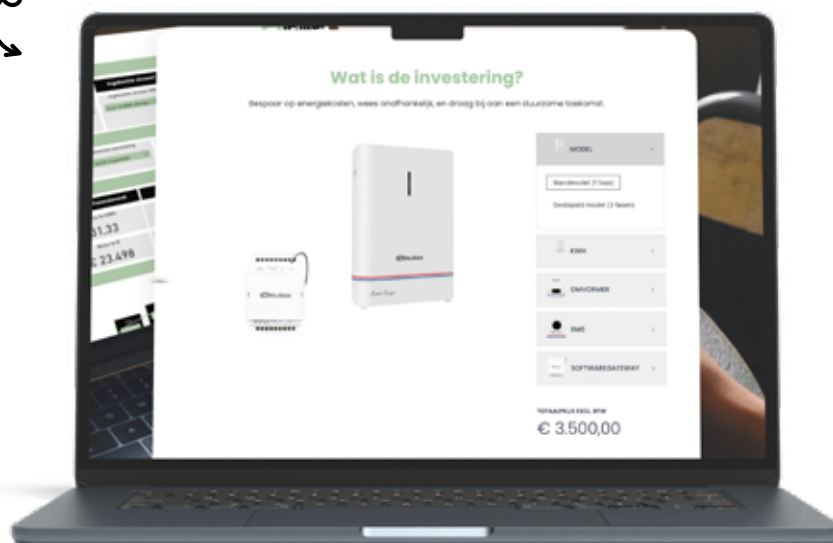
Wandmodel batterijen

1-fase lage voltage

5.22 – 15.66 kWh

Met dit wandmodel speelt Altilia in op de enorme vraag naar 1-fase thuisbatterijen. De wandmodellen zijn modulair uitbreidbaar zodat voorzien kan worden in een opslagbehoefte van 5,22 kWh bij een module, 10,44 kWh opslag in geval van twee modules tot maximaal 15,66 kWh opslag bij drie modules.

Bereken jouw investering
op altilia.nl



Technische specificaties

| Wandmodel | |
|-------------------------------------|---|
| Maximale opslagcapaciteit (kWh) | 5.12 |
| Maximaal bruikbare capaciteit (kWh) | 4.86 |
| Voltage (Vdc) | 44.8 - 57.6 |
| Nominale laadspanning (Vdc) | 51.2 |
| Maximaal laad-/ontlaadstroom (A) | 57.6 |
| Nominale ontladstroom | 80A (6P 200A) |
| Nominale laadstroom | 50A (6P 200A) |
| Gewicht (kg) | 45 |
| Afmetingen | 640*420*161,5 mm |
| Maximaal aanbevolen DOD | 95% |
| Plaatsing | Binnen |
| Temperatuur opladen | 0 tot 50°C |
| Temperatuur ontladen | -10 tot 55°C |
| Vochtigheid | <60% (geen condenswater) |
| Overspanningscategorie | II |
| Type koeling | Natuurlijke koeling |
| Materiaal behuizing | Metaal |
| Installatie | Muur / grond |
| IP waarde | IP 20 |
| Beschermingsklasse | I |
| Maximaal verbindingsnummer | 6P |
| Communicatie | CAN/RS485 |
| Batterij bescherming | Overstroom / overspanning / kortsluiting / onderspanning / oververhitting |
| Certificaten | CE, IEC62619, IEC61000, IEC62040, IEC63056, UN38,3, MSDS |
| Vervoer | UN 38.3 |



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"De installatie was vlekkeloos en de accu werkt perfect met ons zonnestelsel. Bovendien ziet het er geweldig uit - complimenten voor het Dutch design!"

Contact

Advies en commerciële vragen

0318 255 069 - Keuze 1

Technische vragen

0318 255 069 - Keuze 2



Locatie Renswoude

Barneveldsestraat 26A
3927 CC Renswoude

0318 - 255 069

www.aitilia.nl
info@aitilia.nl