

MADE IN TÜRKİYE

TECHNICAL PRODUCT CATALOGUE | 2026

MODULAR G2 LiFePO4 BATTERY SYSTEMS

Two locally manufactured 5.22 kWh platforms engineered for 24 V-class and 48 V-class low-voltage storage systems.

5.2224 kWh / MODULE

UP TO 8,000 CYCLES

MAX. 16 PARALLEL



LOCAL PRODUCTION

Türkiye



ACTIVE BMS

Seven protection functions



CONNECTED

CAN / RS485 / Bluetooth*

A2ZEXIMCO

TECHNICAL SALES + EXPORT SUPPORT



Two focused choices for the most common LV battery buses.

The two models share the same published energy, chemistry, cycle conditions and reference DC power. A focused portfolio makes selection easier, but the battery voltage must match the inverter battery-input class.



BTR-P-51.2V-102Ah

51.2V 102Ah G2

5.2224 kWh

PUBLISHED USABLE ENERGY

50 A recommended | 75 A maximum

48 V-CLASS INVERTER

[OFFICIAL PRODUCT PAGE](#)



BTR-P-25.6V-204Ah

25.6V 204Ah G2

5.2224 kWh

PUBLISHED USABLE ENERGY

100 A recommended | 150 A maximum

24 V-CLASS INVERTER

[OFFICIAL PRODUCT PAGE](#)

CRITICAL COMPATIBILITY RULE

Do not place two 25.6 V batteries in series to imitate a 51.2 V battery. Both technical sheets state: Serial connection - No.

5.2224

KWH PER MODULE

2.56

KW AT RECOMMENDED CURRENT

3.84

KW AT MAXIMUM CURRENT

16

PARALLEL UNITS MAXIMUM

Select voltage first, then verify current and communication.

A battery is not universal simply because it is low voltage. Use the inverter manual and the latest compatibility list to verify the complete battery window, BMS protocol, charge limit and permitted parallel count.

01 VOLTAGE CLASS

48 V-class battery input -> 51.2 V / 102 Ah. 24 V-class input -> 25.6 V / 204 Ah.

02 CURRENT DEMAND

Estimate DC current from inverter output: $I = P / (V \times \text{efficiency})$. Check both recommended and maximum battery limits.

03 BMS PROTOCOL

Confirm CAN / RS485 pinout, protocol profile, firmware and any required inverter-side battery selection.

04 PARALLEL COUNT

Use identical batteries and stay within the manufacturer maximum of 16 parallel units.

SCREENING FORMULA

Required modules = ceiling [inverter AC power / (51.2 V x 50 A x 0.95)]

Both batteries publish the same 2.56 kW reference power at recommended current, so the same screening count applies. The 0.95 factor is an engineering assumption for conversion efficiency, not a manufacturer guarantee.

WHY THIS MATTERS

A single 5.22 kWh battery can store enough energy for many loads yet still be unable to support the inverter's full instantaneous output. Energy capacity (kWh) and current capability (A) must both pass.

INVERTER OUTPUT	3 kW	5 kW	6 kW	8 kW	10 kW
MODULES AT RECOMMENDED CURRENT*	2	3	3	4	5

*Preliminary equal-sharing estimate only. Confirm inverter surge, DC cut-off, BMS limit, cable voltage drop and manufacturer compatibility before design approval.

[OPEN COMPATIBILITY LIST](#)

TommaTech Modular Series 51.2V 102Ah G2



51.2 V

NOMINAL VOLTAGE

102 Ah

NOMINAL CAPACITY

8,000

PUBLISHED CYCLE LIFE

5 YEARS

PRODUCT PAGE WARRANTY



ANGLE



FRONT + LCD



TERMINALS

Official product images show the modular front, angled housing and protected terminal/interface area.

[OFFICIAL PRODUCT PAGE](#)

51.2V 102Ah G2 - electrical, mechanical and interface data

TECHNICAL PARAMETER	PUBLISHED VALUE
Nominal voltage	51.2 V
Nominal capacity	102 Ah
Published usable energy - note 1	5,222.4 Wh
Recommended charge current - notes 2, 3	50 A
Maximum charge current - notes 2, 3	75 A
Recommended charge voltage	56.8 V
Maximum charge voltage	58.4 V
Recommended discharge current - notes 2, 3	50 A
Maximum discharge current - notes 2, 3	75 A
Discharge cut-off voltage	44.8 +/- 0.2 V

REFERENCE DC POWER

$$51.2 \text{ V} \times 50 \text{ A} = 2.56 \text{ kW}$$

RECOMMENDED CURRENT

$$51.2 \text{ V} \times 75 \text{ A} = 3.84 \text{ kW}$$

MAXIMUM CURRENT

Source footnotes: 1 usable energy; 2 at 0.5C; 3 at 25 C +/-2 C. Product specifications may change without prior notice.



BTR-P-51.2V-102Ah

5.2224 kWh

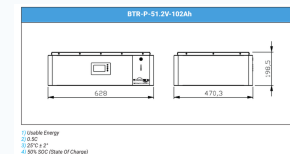
MECHANICAL + INTERFACE

DIMENSIONS **628 x 468.5 x 198.5 mm**

WEIGHT **47.70 +/- 0.2 kg**

BATTERY CONNECTOR **IP67 protected positive / negative pole connector**

DISPLAY / HOUSING **LCD / metal case**



[OPEN TECHNICAL SOURCE](#)

TommaTech Modular Series 25.6V 204Ah G2



25.6 V

NOMINAL VOLTAGE

204 Ah

NOMINAL CAPACITY

8,000

PUBLISHED CYCLE LIFE

5 YEARS

PRODUCT PAGE WARRANTY



FRONT + LCD



TERMINALS



MOBILE BASE



4-MODULE STACK

Base accessory is shown for configuration context and is available separately on request.

[OFFICIAL PRODUCT PAGE](#)

25.6V 204Ah G2 - electrical, mechanical and interface data

TECHNICAL PARAMETER	PUBLISHED VALUE
Nominal voltage	25.6 V
Nominal capacity	204 Ah
Published usable energy - note 1	5,222.4 Wh
Recommended charge current - notes 2, 3	100 A
Maximum charge current - notes 2, 3	150 A
Recommended charge voltage	28.4 V
Maximum charge voltage	29.2 V
Recommended discharge current - notes 2, 3	100 A
Maximum discharge current - notes 2, 3	150 A
Discharge cut-off voltage	22.4 +/- 0.2 V



MECHANICAL + INTERFACE

DIMENSIONS	466.5 x 626.5 x 198.5 mm
WEIGHT	47.70 +/- 0.2 kg
BATTERY CONNECTOR	IP67 protected positive / negative pole connector
DISPLAY / HOUSING	LCD / metal case

REFERENCE DC POWER

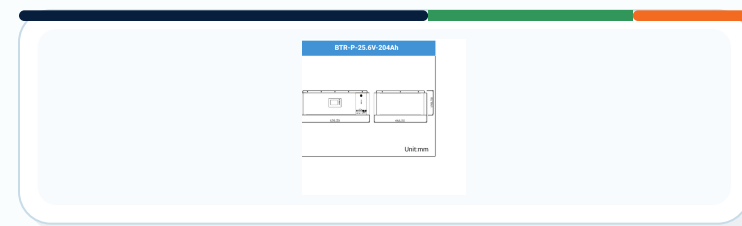
25.6 V x 100 A = 2.56 kW

RECOMMENDED CURRENT

25.6 V x 150 A = 3.84 kW

MAXIMUM CURRENT

Source footnotes: 1 usable energy; 2 at 0.5C; 3 at 25 C +/- 2 C. Product specifications may change without prior notice.



[OPEN TECHNICAL SOURCE](#)

Equal energy and power - different voltage architecture.

The doubled voltage of the 51.2 V model is paired with half the current of the 25.6 V model. Both therefore publish the same energy and reference DC power, while conductor, protection and inverter-input requirements remain different.

SELECTION PARAMETER	51.2 V / 102 Ah	25.6 V / 204 Ah
Model	BTR-P-51.2V-102Ah	BTR-P-25.6V-204Ah
Intended inverter battery class	48 V-class LV	24 V-class LV
Nominal voltage	51.2 V	25.6 V
Nominal capacity	102 Ah	204 Ah
Published usable energy	5,222.4 Wh	5,222.4 Wh
Recommended charge / discharge current	50 A / 50 A	100 A / 100 A
Maximum charge / discharge current	75 A / 75 A	150 A / 150 A
Reference power at recommended current	2.56 kW	2.56 kW
Reference power at maximum current	3.84 kW	3.84 kW
Recommended / maximum charge voltage	56.8 / 58.4 V	28.4 / 29.2 V
Discharge cut-off	44.8 +/- 0.2 V	22.4 +/- 0.2 V
Dimensions (W x D x H)	628 x 468.5 x 198.5 mm	466.5 x 626.5 x 198.5 mm
Weight	47.70 +/- 0.2 kg	47.70 +/- 0.2 kg
Communication	CAN / RS485 / Bluetooth*	CAN / RS485 / Bluetooth
Parallel / series	Max. 16 / No	Max. 16 / No

BLUETOOTH SOURCE NOTE

The 51.2 V technical sheet lists Bluetooth, while the product webpage qualifies Bluetooth for 25.6 V batteries. Confirm the supplied 51.2 V communication configuration.

Scale energy in parallel - never in series.

Both Modular G2 models publish a maximum of 16 parallel units. The capacity figures below are mathematical totals based on 5.2224 kWh per module; final system limits remain subject to the inverter, BMS, protection and cable design.



UP TO 16 PARALLEL UNITS

Manufacturer commercial position: up to 80 kWh

OFFICIAL 4-MODULE STACK VIEW

PARALLEL CAPACITY GROWTH

MODULES	TOTAL ENERGY	RELATIVE CAPACITY
1	5.22 kWh	
2	10.44 kWh	
4	20.89 kWh	
8	41.78 kWh	
16	83.56 kWh	

01 IDENTICAL BATTERIES

Use the same model, capacity, age and production series.

02 BALANCED DC PATHS

Keep cable lengths and branch resistance symmetrical.

03 PROTECTED BRANCHES

Provide approved isolation, fuse protection and conductor sizing.

SERIES CONNECTION: NOT PERMITTED

For a 48 V-class inverter, select the 51.2 V model; do not series-connect two 25.6 V batteries.

Active BMS protection and published operating envelope.

Both models use prismatic LFP cells with the same published BMS functions and operating limits. The protection functions below are taken directly from the technical sheets and summarized for project evaluation.



BATTERY TERMINALS + COMMUNICATION INTERFACE

SEVEN PUBLISHED BMS FUNCTIONS

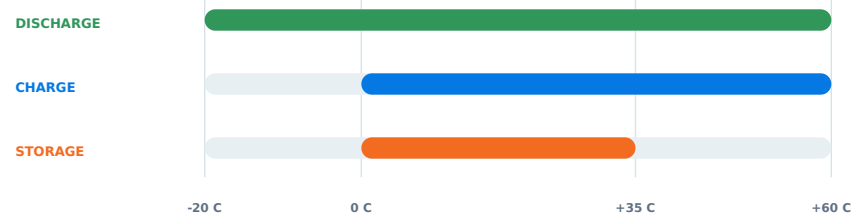
- | | |
|--|-----------------------------|
| 01 Overcharge protection | 02 Overdischarge protection |
| 03 Overcurrent protection | 04 Short-circuit protection |
| 05 Overtemperature protection | 06 Temperature sensor |
| 07 Adjustable charge / discharge current | |

CELL + LIFETIME DATA

CHEMISTRY	MASS DENSITY
LFP prismatic	165 Wh/kg
CYCLE LIFE	VOLUME DENSITY
Up to 8,000 cycles	350 Wh/L
TEST REFERENCE	INTERNAL RESISTANCE
0.5C / 25 C +/-2 C	0.27-0.40 mOhm at 17% +/-3% SOC
SOC / DOD / EOL	DESIGN LIFE
50% / 75% / 80%	>15 years

PUBLISHED OPERATING TEMPERATURES

RH: MAX. 85% NON-CONDENSING



ENCLOSURE RANGE

Published as IP20-IP65 compatible configurations - verify the delivered rating.

REFERENCES

IEC 61960 / IEC 62133-2 / RoHS

A professional handover starts before the battery is energized.

Use the exact product label, technical sheet and current manual together. Installation must be performed by qualified personnel with battery-side isolation and protection appropriate to the expected DC fault current.



CONNECTION PANEL - OFFICIAL PRODUCT VIEW

CONTROLLED COMMISSIONING SEQUENCE

- | | | |
|----|------------|---------------------------------------|
| 01 | VERIFY | Model, voltage and serial number |
| 02 | DESIGN | Cable, isolation and ventilation |
| 03 | CONNECT | Polarity, torque and communication |
| 04 | COMMISSION | Limits, firmware and alarm-free test |
| 05 | DOCUMENT | Settings, photos and handover records |

ELECTRICAL VERIFICATION

- 01 Battery voltage is inside the inverter window
- 02 Charge voltage and current limits are configured
- 03 Discharge cut-off is coordinated with the BMS
- 04 DC polarity and connector seating are correct
- 05 No series wiring; parallel modules are balanced

COMMUNICATION + HANDOVER

- 01 CAN / RS485 protocol and pinout confirmed
- 02 Correct inverter battery profile selected
- 03 Firmware and parallel addressing checked
- 04 Alarm-free charge and discharge test completed
- 05 Serial numbers and warranty documents delivered

WARRANTY-SENSITIVE

Avoid incompatible inverters, reverse polarity, mixed batteries, inadequate ventilation and undocumented maintenance.

[USER MANUAL](#)

[COMPATIBILITY](#)

Commercial assurance with transparent document control.

The catalogue links directly to the technical, warranty, conformity and installation documents used for verification. Document previews below are reproduced from the linked source files.

LOW-VOLTAGE WARRANTY

60 MONTHS

Document V2305.15

51.2 V x 102 Ah is explicitly listed. The 25.6 V document scope uses 104 / 208 Ah codes, so the exact 204 Ah order terms should be confirmed in writing.

[OPEN WARRANTY](#)

CERTIFICATE OF CONFORMITY

IDS.CE.2026.19294.3

Valid: 16 Apr 2026 - 16 Apr 2027

Licence holder: CW STORAGE ENERJİ A.Ş. References include TS EN 61427-1, IEC 61960 and IEC 62133-2 / TS EN 62133-2.

[OPEN CERTIFICATE](#)

VERIFIED SOURCE DOCUMENTS

TECHNICAL DATA

- 01 51.2 V 102 Ah technical sheet
- 02 25.6 V official TommaTech catalogue
- 03 25.6 V English technical archive

OFFICIAL PRODUCT PAGES

- 01 51.2 V 102 Ah product page
- 02 25.6 V 204 Ah product page

INSTALLATION + ASSURANCE

- 01 Certificate of conformity
- 02 Low-voltage warranty
- 03 Series user manual
- 04 Compatible-inverter list

SCOPE NOTE

PB Series EMC / IEC 62619 / RED files are not presented as evidence for these Modular G2 sales codes.

MADE IN TÜRKİYE

FOCUSED RANGE. CONFIDENT SELECTION.

Locally manufactured LFP storage supported by verified technical data, project guidance and responsive export communication.

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TECHNICAL SALES | PROJECT SUPPLY | EXPORT SUPPORT



ILLUSTRATIVE INDOOR INSTALLATION