



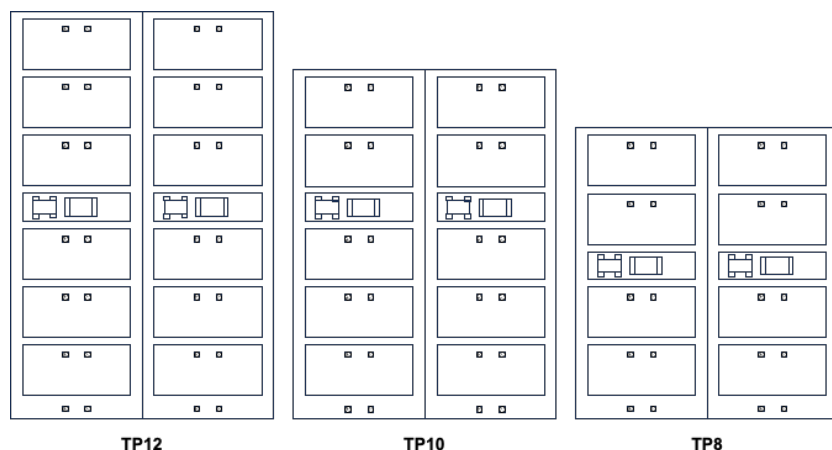
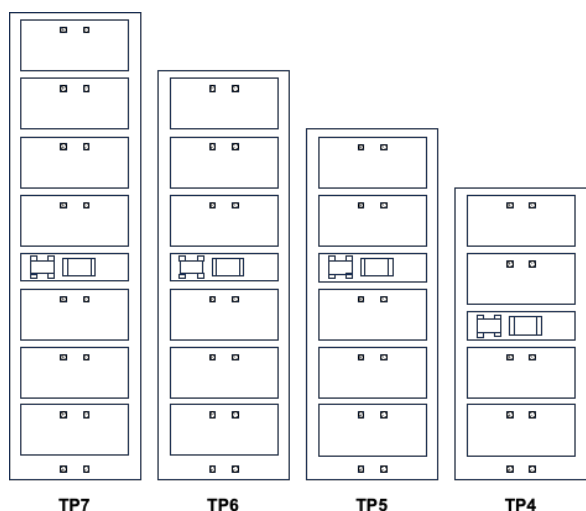
BATTERY BANQ TOWER OF POWER

(314 Ah cells)



MEDIUM VOLTAGE RANGE

HIGH VOLTAGE RANGE



CONFIGURATION AND TECHNICAL INFORMATION

Battery Module	Balancell P34 (314 Ah, 32.6 kWh, 104 V, 202 kg)						
Product	TP 4	TP 5	TP 6	TP 7	TP 8	TP 10	TP 12
Number of Modules	4	5	6	7	8	10	12
Useable Energy	130 kWh	163 kWh	196 kWh	228 kWh	261 kWh	326 kWh	391 kWh
Nominal Voltage (VDC)	416 V	520 V	624 V	728 V	832 V	1040 V	1248 V
Operating Voltage (VDC)	371 - 451 V	464 - 564 V	556 - 677 V	649 - 790 V	742 - 903 V	928 - 1129 V	1113 - 1355 V
Weight	1,039 kg	1,299 kg	1,559 kg	1,819 kg	2,079 kg	2,599 kg	3,118 kg
Dimensions (mm) (w x d x h)	754 x 955 x 1787	754 x 955 x 2017	754 x 955 x 2347	754 x 955 x 2677	1512 x 955 x 1787	1512 x 955 x 2017	1512 x 955 x 2347





BATTERY BANQ TOWER OF POWER



BATTERY BANQ TOWER OF POWER: YOUR COMPLETE POWER SOLUTION

Key Features

- Complete Integrated Solution: Everything you need in one hassle-free package
- Hybrid Inverter Compatible: Seamless integration with leading inverters
- Integrated Communication System – RTU: Real-time monitoring and control
- Embedded Battery Management System (BMS): Precision protection and optimisation
- Locally Manufactured and Serviced: Johannesburg-made with full Service Level Agreement (SLA)
- Factory Acceptance Test and COC Done Before Installation: Certified and ready to go

Powerful Warranties

- 10-year warranty on batteries plus Energy Throughput Guarantee—peace of mind built in

Proven Applications

- Tariff arbitrage
- Renewable energy optimisation
- Energy security
- Power factor correction
- Diesel generator optimisation

Optional

- Fire fighting system
- Inverter options
- EMS – Energy Management System upgrade

What's Excluded

External cables

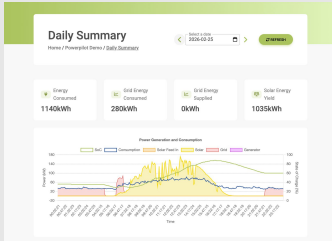
Power up reliably, locally. Contact us today for your Tower of Power.





DISPLAY AND INTERFACE

- HMI Screen for cell level BMS monitoring and EMS interface
- Integrated communications gateway (RTU)



BATTERY AND ENERGY MANAGEMENT SYSTEM "BMS AND EMS"



System Evaluation

- complete evaluation of inverter and solar system to identify inefficiencies and potential savings



Energy Monitor

- real-time remote inverter monitoring



Predictive Energy Optimiser

- dynamically fine-tune inverter(s) based on expected load shedding, historical usage trends and up-to-date weather forecasts
- non-essential loads can be automatically controlled based on available solar energy



SAFETY AND PROTECTION

- HV interlock for battery OK signal
- DC fuses and 300A contactor

GENERAL DATA

Product	TP 4	TP 5	TP 6	TP 7	TP 8	TP 10	TP 12
C-rating (charge / discharge)				0.8C / 1.0C			
Continuous Discharge Current				314 A			
Surge Discharge Current - 30 sec				924 A			
Surge Discharge Current - 3 min				628 A			
Charging Temperature				5 to 55 °C			
Discharging Temperature				-15 to 55 °C			
Battery Cell Technology				Lithium Ferro-Phosphate (LFP)			
Communication				CAN / RS485 / Modbus TCP			
Warranty per Battery Module				Energy Output: 100% DOD - 94,000 kWh, < 80% DOD - 158,000 kWh Calendar Time - 10 years			

CERTIFICATIONS AND STANDARDS

Product	P34 (32.6 kWh - 104 V) & Tower of Power
Cell Certifications (GB)	Certified to - GB31484, GB31485, GB31486, UL1973, MSDS UN38.3
Cell Manufacturing (ISO)	Certified to - ISO9001, ISO14001, TS16949
Battery Manufacturing (ISO)	Certified to - ISO9001
Electromagnetic Compatibility (CE)	Certified to - EN 301 489-1: V2.2.3, EN 301 489-52: V 1.1.0, EN / IEC 61326-1
Battery Standards (IEC)	Designed to meet - IEC 62485-6, IEC 63056, IEC 61619, IEC 62660-2
Battery Standards (UL)	Designed to meet - UL 2580
Tower Fabrication and Assembly (ISO)	ISO9001, ISO45001





BATTERY BANQ TOWER OF POWER



PRICE LIST

Product	TP 4	TP 5	TP 6	TP 7	TP 8	TP 10	TP 12
# of P34 battery modules	4	5	6	7	8	10	12
Useable Energy	130 kWh	163 kWh	196 kWh	228 kWh	261 kWh	326 kWh	391 kWh
Nominal Voltage (VDC)	416 V	520 V	624 V	728 V	832 V	1040 V	1248 V
Operating Voltage (VDC)	371 - 451 V	464 - 564 V	556 - 677 V	649 - 790 V	742 - 903 V	928 - 1129 V	1113 - 1355 V
Tower Cost (excl. VAT)	R 341,591	R 411,339	R 482,974	R 554,195	R 649,997	R 782,888	R 934,819
Cost per kWh	R 2,620	R 2,524	R 2,469	R 2,429	R 2,492	R 2,401	R 2,390

* excludes delivery and installation

* prices subject to change

Power up reliably, locally. Contact us today for your Tower of Power.

