

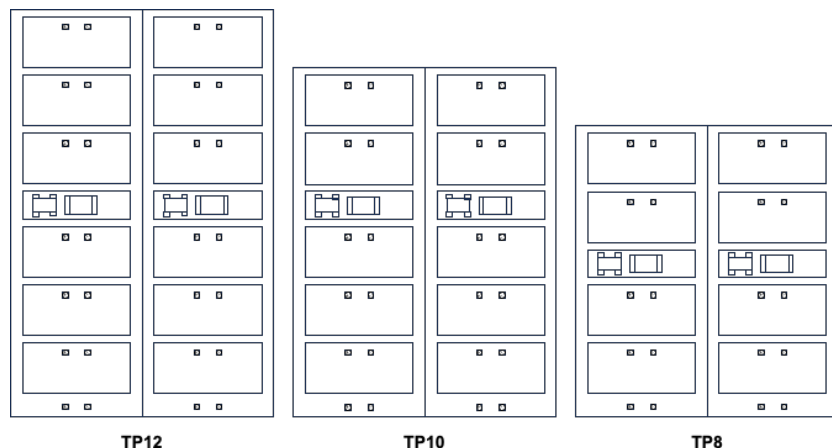
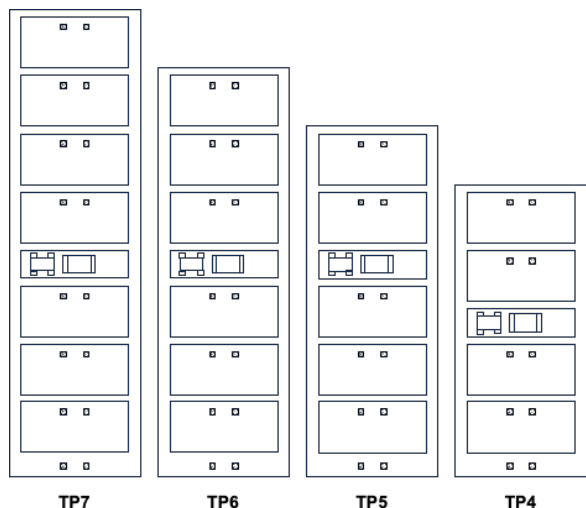


BATTERY BANQ TOWER OF POWER



LOW VOLTAGE RANGE

HIGH VOLTAGE RANGE



CONFIGURATION AND TECHNICAL INFORMATION

Battery Module	Balancell P34 (28.8 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	115 kWh	144 kWh	172 kWh	201 kWh	230 kWh	288 kWh	345 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
Continuous Discharge Current				280 A			
Surge Discharge Current - 30 sec				840 A			
Surge Discharge Current - 3 min				560 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 - 83,000 kWh, < 80% DOD - 139,000 kWh Calendar Time - 10 years			

CERTIFICATIONS AND STANDARDS

Product	P34 (28.8 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	115 kWh	144 kWh	172 kWh	201 kWh	230 kWh	288 kWh	345 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 377,156	R 455,796	R 536,323	R 616,436	R 712,128	R 880,744	R 1,041,515
Cost per kWh	R 3,274	R 3,165	R 3,104	R 3,058	R 3,130	R 3,058	R 3,014

* excludes delivery and installation

* prices subject to change.

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

