



FLEXOPOWER LITHIUM555 POWER STATION SPEC SHEET

Overview

The Lithium555 by Flexopower is the first power station of its kind with a replaceable lithium battery. At the end of the battery's service life, you only need to replace the battery and continue using the station. This innovative feature significantly lowers the cost of ownership compared to competitor products that require total replacement. The Lithium555 is built with heavy-duty aluminum extrusion and includes integrated South African plugs

Key Features

Replaceable Battery:	Service life of nominal 500 cycles, capacity remains >90%. Replacement needed only after 1200+ cycles
Recharge Time:	Only 2 hours to recharge after a typical 2-hour load shedding period.
Housing:	Heavy-duty aluminum extrusion for durability
Battery:	Quality lithium battery in 4 series configuration, 555Wh / 150,000mAh capacity.
AC Output:	500W max (1,000W peak), pure sine, 50Hz, with 2 South African plugs.
DC Output:	1 x 12V CLA, 2 x 12V barrel plugs @ 15A, 4 x USB ports (including fast charge and type C).
Safety Lock:	Lockable AC and DC outputs to ensure zero output when locked.
LCD Display:	Shows all vital system information, including battery life projection and charge/discharge rates.
Solar Ready:	Integrated MPPT charge controller for direct solar charging
Multiple Recharge Options:	AC mains, 12V car socket with DC booster, and solar PV.
Maintenance:	Recommended to top up from AC every 2-3 months if not in use.
Free Shipping:	Within South Africa
Warranty:	2 years.

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Specifications	
Battery Cycle Life:	≥ 500 Cycles to 96% DOD
Battery Type:	Lithium ion, replaceable
Battery Capacity:	555Wh / 150,000mAh / 3.7V
AC Output:	500W (1,000W surge) total, 2 x 230V 50Hz, sine wave
DC Output:	<ul style="list-style-type: none"> · 1 x 13.6V/15A Cigarette Lighter · 2 x USB-A 5V/2.4A, 12W per port · 1 x USB-A Fast Charge 5V/2.4A, 18W per port · 1 x USB-C 5V/3A, 30W per port
Input Sources for Re-Charge:	<ul style="list-style-type: none"> · Solar Vmp 18V - 24V, 5A max. (models <Sept 2022) · Solar Vmp 11V - 27V, 7A max. (models Sept+ 2022) · Car Lighter 19V, 2.5A max. (models <Sept 2022) · Car Lighter 12V, 7A max. (models Sept+ 2022) · Mains AC 220V
Charge Retention:	Holds charge for 6+ months
Indicators:	Full LCD display for vital system info
Weight:	6.6 kg
Dimensions (L x W x H):	310 x 170 x 213 mm
Safety Features:	<ul style="list-style-type: none"> · Short Circuit · Over-Current · Over-Voltage · Low-Voltage · Over-Load · Over-Temperature
Included Accessories:	<ul style="list-style-type: none"> · 1 x AC charger cable · 1 x Car 12V/19V booster charger · 1 x Solar cable with Anderson SB50 grey connector · User manual
Operating Range:	0°C to 45°C
Warranty:	2 years on battery
Certification:	CE, FCC, RoHS, PSE



FLEXOPOWER LITHIUM600 PORTABLE POWER STATION SPEC SHEET

Overview

The Lithium600 by Flexopower is the smallest power station in their lineup, featuring a true UPS (Uninterruptible Power Supply) and an app for enhanced control. Designed for multipurpose use, it is perfect for camping, work, and off-grid applications. The compact design fits seamlessly in trailers and caravans, and it can be easily transitioned for home or office use post-camping.

Key Features

True UPS:	By-pass switch with a 14ms switching time.
Battery:	512Wh LiFePO4 with a 10-year service life.
AC Output:	600W total (1200W peak), 230V 50Hz, 16A, pure sine wave.
DC Output:	<ul style="list-style-type: none">· 1 x 12.6V/12A, regulated CLA.· 2 x 12.6V/12A, regulated barrel plugs.· 2 x USB-A 12W.· 2 x PD 100W.
Integrated Solar MPPT:	Accepts up to 240W solar charge (12V - 28V, max 12A).
Fast Charge:	Recharges in 30 minutes using AC230V, 1200W.
Multiple Recharge Options:	AC mains, 12V car charger, and solar PV.
App Compatibility:	Open-source app compatible with Alexa and Google.
Multiple Recharge Options:	AC mains, 12V car socket with DC booster, and solar PV.

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Specifications	
Battery Service Life:	10 years' service life +/-
Battery Chemistry:	Square Aluminum Case Lithium Iron Phosphate (LiFePO4)
Battery Capacity:	555Wh / 150,000mAh / 3.7V
Battery Capacity:	512 Watt Hours (Wh), 25.6V, 20 Amp Hours (Ah).
AC Output:	600W total (1200W peak), 230V 50Hz, 16A, pure sine wave.
DC Output:	<ul style="list-style-type: none"> · 1 x 12.6V/12A, regulated CLA. · 2 x 12.6V/12A, regulated barrel plugs. · 2 x USB-A 12W. · 2 x PD 100W.
Input Sources for Re-Charge:	<ul style="list-style-type: none"> · AC230V, 1200W fast charge, approximately 30 minutes. · 12V car charge, max. 10A. · Solar PV max. 240W, 12V-28V, max. 12A (MPPT).
Indicators:	Full LCD display for vital system info
UPS:	Yes, with a 14ms switching time
Indicators:	Full LCD display for vital system info.
Weight	6.9 kg.
Dimensions:	290 x 195 x 200 mm
Safety Features	<ul style="list-style-type: none"> · Short Circuit. · Over-Current. · Over-Voltage. · Low-Voltage. · Over-Load. · Over-Temperature
Included Accessories:	· 1 x AC charger cable. · 1 x 12V car charger cable. · User manual.
Operating Range:	0°C to 45°C.
Warranty:	2 years.
Certification:	CE, FCC, RoHS, PSE
App:	Yes, open-source, compatible with Alexa and Google.



FLEXOPOWER LITHIUM700 POWER STATION SPEC SHEET

Overview

The Lithium700 by Flexopower represents the 3rd generation of their power stations, incorporating the latest technology and unique features. It is equipped with a replaceable LiFePO4 battery, true UPS functionality, and a durable aluminum casing. The Lithium700 is ideal for powering devices such as TVs, laptops, PCs, laser printers, lights, camping fridges, and WiFi routers during load shedding or camping.

Key Features

Replaceable Battery:	LiFePO4 battery with an option to replace
True UPS:	By-pass switch with a 20ms switching time.
Aluminum Casing:	Non-flammable, providing protection against mechanical impact.pure sine wave.
Fast Charge Algorithm:	Replenishes the battery from AC in just over 2 hours.
Power Boost:	Extends AC output from 700W to 900W by lowering operating voltage from 230V to 200V (not compatible with appliances having voltage protection)
Integrated Solar MPPT:	Accepts up to 400W solar charge (10V - 60V, max 10A) with XT60 input.
Multiple Recharge Options:	AC mains, solar PV, and car charger.
Included Accessories:	All necessary charging cables and connectors (AC, solar, and car).

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Specifications	
Battery Cycle Life:	2000 cycles >80% capacity, 10 years' service life +/-
Battery:	Lithium Iron Phosphate (LiFePO4), replaceable option.
Battery Capacity:	672Wh / 210,000mAh / 3.2V
AC Output:	700W (1400W peak), 230V, 50Hz, pure sine wave
DC Output:	<ul style="list-style-type: none"> · 1 x 13.5V/12A regulated, Cigarette Lighter. · 2 x 13.5V/12A regulated, DC5521 (barrel plug). · 2 x USB-A Fast Charge 5V/2.4A, 18W per port. · 1 x PD18W, type C. · 1 x PD100W, type C
Input Sources for Re-Charge	<ul style="list-style-type: none"> · AC230V, 400W, gentle fast charge. · Solar PV max. 400W, 10V-60V, max. 10A. · Car DC charge, 117W max.
UPS:	20ms switching time, max. 700W load
Indicators:	Full LCD display for vital system info.
Weight	9.3 kg
Dimensions (L x W x H):	315 x 190 x 220 mm.
Safety Features	<ul style="list-style-type: none"> · Short Circuit. · Over-Current. · Over-Voltage. · Low-Voltage. · Over-Load. · Over-Temperature
Included Accessories:	<ul style="list-style-type: none"> · 1 x AC charger cable. · 1 x Car charger. · 1 x Solar cable with XT60 and Anderson SB50 grey connector. · User manual.
Operating Range:	0°C to 45°C.
Warranty:	2 years.
Certification:	CE, FCC, RoHS, PSE



FLEXOPOWER LITHIUM1200 POWER STATION SPEC SHEET

Overview

The Lithium1200 by Flexopower represents the 3rd generation of their power stations, offering the latest technology and unique features. It is equipped with a replaceable LiFePO4 battery, true UPS functionality, and a durable aluminum casing. The Lithium1200 is ideal for powering devices such as TVs, laptops, PCs, laser printers, lights, camping fridges, and WiFi routers during load shedding or camping.

Key Features

Replaceable Battery:	LiFePO4 battery with an option to replace.
True UPS:	By-pass switch with a 20ms switching time.
Aluminum Casing:	Non-flammable, providing protection against mechanical impact.
Fast Charge Algorithm:	Replenishes the battery from AC in just over 2 hours.
Power Boost:	Extends AC output from 1200W to 1600W by lowering operating voltage from 230V to 200V (not compatible with appliances having voltage protection).
Integrated Solar MPPT:	Accepts up to 400W solar charge (10V - 60V, max 10A) with XT60 input.
Multiple Recharge Options:	AC mains, solar PV, and car charger.
Included Accessories:	All necessary charging cables and connectors (AC, solar, and car).

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Specifications	
Battery Cycle Life:Life:	2000 cycles >80% capacity, 10 years' service life +/-
Battery:	Lithium Iron Phosphate (LiFePO4), replaceable option.
Battery Capacity:	1008Wh / 315,000mAh / 3.2V.
AC Output:	1200W (2400W peak), 230V, 50Hz, pure sine wave.
DC Output:	<ul style="list-style-type: none"> · 1 x 13.5V/12A regulated, Cigarette Lighter. · 2 x 13.5V/12A regulated, DC5521 (barrel plug). · 2 x USB-A Fast Charge 5V/2.4A, 18W per port. · 1 x PD18W, type C. · 1 x PD100W, type C
Input Sources for Re-Charge	<ul style="list-style-type: none"> · AC230V, 600W, gentle fast charge. · Solar PV max. 400W, 10V-60V, max. 10A. · Car DC charge, 117W max.
UPS:	20ms switching time, max. 1200W load.
Indicators:	Full LCD display for vital system info.
Weight	12.8 kg.
Dimensions (L x W x H):	395 x 190 x 220 mm.
Safety Features	<ul style="list-style-type: none"> · Short Circuit. · Over-Current. · Over-Voltage. · Low-Voltage. · Over-Load. · Over-Temperature
Included Accessories:	<ul style="list-style-type: none"> · 1 x AC charger cable. · 1 x Car charger. · 1 x Solar cable with XT60 and Anderson SB50 grey connector. · User manual.
Operating Range:	0°C to 45°C.
Warranty:	2 years.
Certification:	CE, FCC, RoHS, PSE



FLEXOPOWER LITHIUM1800 POWER STATION SPEC SHEET

Overview

The Lithium1800 by Flexopower is their 2nd largest power station, designed for multi-purpose use including load shedding, camping, and home or office backup. It is ideal for powering most household and office items such as TVs, laptops, PCs, laser printers, lights, camping fridges, and WiFi routers during load shedding or camping. The compact design allows it to fit perfectly in trailers and caravans and can be easily removed for use at home or in the office.

Key Features

True UPS:	By-pass switch with a 14ms switching time.
Integrated Solar MPPT:	Accepts up to 400W solar charge (13V - 45V, max 12A).
Multiple Recharge Options:	AC mains, solar PV.
Included Accessories:	All necessary charging cables and connectors (AC and solar).

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Specifications	
Battery Service Life:	10 years' service life +/-
Battery Chemistry:	Square Aluminum Case Lithium Iron Phosphate (LiFePO4).
Battery Capacity:	1229Wh, 51.2V, 24Ah.
AC Output:	1800W total (3600W peak), 230V, 50Hz, pure sine wave.
DC Output:	<ul style="list-style-type: none"> · 1 x 12.6V/10A regulated, CLA. · 2 x 12.6V/3A regulated, DC5521 (barrel plug). · 2 x USB-A Fast Charge 5V/2.4A, 18W per port. · 2 x USB-A Fast Charge 5V/2.4A, 12W per port. · 2 x type C, PD 100W per port.
Input Sources for Re-Charge	<ul style="list-style-type: none"> · AC230V, 1800W fast charge, approximately 60 minutes. · Solar PV max. 400W, 13V-25V, max. 12A.
UPS:	14ms switching time.
Indicators:	Full LCD display for vital system info.
Weight	22 kg.
Dimensions (L x W x H):	270 x 300 x 432 mm.
Safety Features	<ul style="list-style-type: none"> · Short Circuit. · Over-Current. · Over-Voltage. · Low-Voltage. · Over-Load. · Over-Temperature
Included Accessories:	<ul style="list-style-type: none"> · 1 x AC charger cable. · 1 x Car charger. · 1 x Solar cable with XT60 and Anderson SB50 grey connector. · User manual.
Operating Range:	0°C to 45°C.
Warranty:	2 years.
Certification:	CE, FCC, RoHS, PSE
App	Yes, Open Source, compatible with Alexa and Google.



FLEXOPOWER LITHIUM3000 POWER STATION SPEC SHEET

Overview

The Lithium3000 by Flexopower is their largest power station, designed for multi-purpose use including load shedding, camping, and home or office backup. It is ideal for powering most household and office items such as TVs, laptops, PCs, laser printers, lights, camping fridges, and WiFi routers during load shedding or camping. The compact design allows it to fit perfectly in trailers and caravans and can be easily removed for use at home or in the office. Conveniently movable with an expandable pull handle and wheels.

Key Features

True UPS:	By-pass switch with a 14ms switching time.
Integrated Solar MPPT:	Accepts up to 400W solar charge (13V - 45V, max 12A).
Multiple Recharge Options:	AC mains, solar PV.
Included Accessories:	All necessary charging cables and connectors (AC and solar).

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Specifications	
Battery Service Life:	10 years' service life +/-
Battery Chemistry:	Square Aluminum Case Lithium Iron Phosphate (LiFePO4).
Battery Capacity:	2560Wh, 51.2V, 50Ah (expandable to 17.5kWh).
AC Output:	3000W total (5000W peak), 230V, 50Hz, pure sine wave.
DC Output:	<ul style="list-style-type: none"> · 1 x 12.6V/30A regulated, Anderson PP30. · 1 x 12.6V/10A regulated, CLA. · 2 x 12.6V/3A regulated, DC5521 (barrel plug).. · 2 x USB-A Fast Charge 5V/2.4A, 18W per port. · 2 x USB-A Fast Charge 5V/2.4A, 12W per port. · 2 x type C, PD 100W per port.
Input Sources for Re-Charge	<ul style="list-style-type: none"> · AC230V, 2300W fast charge, approximately 90 minutes. · Solar PV max. 800W, 13V-25V, max. 12A.
UPS:	14ms switching time.
Indicators:	Full LCD display for vital system info.
Weight	33 kg.
Dimensions (L x W x H):	536 x 270 x 321 mm.
Safety Features	<ul style="list-style-type: none"> · Short Circuit. · Over-Current. · Over-Voltage. · Low-Voltage. · Over-Load. · Over-Temperature
Included Accessories:	<ul style="list-style-type: none"> · 1 x AC charger cable. · 1 x Solar cable with Anderson SB50 grey connector. · User manual.
Operating Range:	0°C to 45°C.
Warranty:	2 years.
Certification:	CE, FCC, RoHS, PSE
App	Yes, Open Source, compatible with Alexa and Google.

HERE IS AN ESTIMATE OF HOW MANY TIMES EACH FLEXPPOWER PORTABLE POWER STATION CAN RECHARGE THE BATTERIES OF THREE DIFFERENT DRONES:

DJI Mavic 3 Battery (77 Wh)	
Lithium555:	Approximately 7.2 recharges
Lithium600:	Approximately 6.6 recharges
Lithium700:	Approximately 8.7 recharges
Lithium1200:	Approximately 13.1 recharges
Lithium1800:	Approximately 16 recharges
Lithium3000:	Approximately 33.2 recharges

DJI M30T Battery (131.6 Wh)	
Lithium555:	Approximately 4.2 recharges
Lithium600:	Approximately 3.9 recharges
Lithium700:	Approximately 5.1 recharges
Lithium1200:	Approximately 7.7 recharges
Lithium1800:	Approximately 9.3 recharges
Lithium3000:	Approximately 19.5 recharges

ARACE Solid State Li-ion Battery (666 Wh)	
Lithium555:	Approximately 0.8 recharges
Lithium600:	Approximately 0.77 recharges
Lithium700:	Approximately 1.01 recharges
Lithium1200:	Approximately 1.51 recharges
Lithium1800:	Approximately 1.85 recharges
Lithium3000:	Approximately 3.84 recharges

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EFFICIENCY LOSSES SHOULD BE TAKEN INTO ACCOUNT TO PROVIDE A MORE REALISTIC ESTIMATE. TYPICALLY, EFFICIENCY LOSSES RANGE FROM 10% TO 20% FOR POWER CONVERSIONS AND BATTERY CHARGING. LET'S ASSUME A 15% EFFICIENCY LOSS FOR OUR CALCULATIONS.

DJI Mavic 3 Battery (77 Wh)

Lithium555:	$555 \text{ Wh} * 0.85 / 77 \text{ Wh} \approx 6.1$ recharges
Lithium600:	$512 \text{ Wh} * 0.85 / 77 \text{ Wh} \approx 5.6$ recharges
Lithium700:	$672 \text{ Wh} * 0.85 / 77 \text{ Wh} \approx 7.4$ recharges
Lithium1200:	$1008 \text{ Wh} * 0.85 / 77 \text{ Wh} \approx 11.1$ recharges
Lithium1800:	$1229 \text{ Wh} * 0.85 / 77 \text{ Wh} \approx 13.6$ recharges
Lithium3000:	$2560 \text{ Wh} * 0.85 / 77 \text{ Wh} \approx 28.3$ recharges

DJI M30T Battery (131.6 Wh)

Lithium555:	$555 \text{ Wh} * 0.85 / 131.6 \text{ Wh} \approx 3.6$ recharges
Lithium600:	$512 \text{ Wh} * 0.85 / 131.6 \text{ Wh} \approx 3.3$ recharges
Lithium700:	$672 \text{ Wh} * 0.85 / 131.6 \text{ Wh} \approx 4.3$ recharges
Lithium1200:	$1008 \text{ Wh} * 0.85 / 131.6 \text{ Wh} \approx 6.5$ recharges
Lithium1800:	$1229 \text{ Wh} * 0.85 / 131.6 \text{ Wh} \approx 7.9$ recharges
Lithium3000:	$2560 \text{ Wh} * 0.85 / 131.6 \text{ Wh} \approx 16.5$ recharges

ARACE Solid State Li-ion Battery (666 Wh)

Lithium555:	$555 \text{ Wh} * 0.85 / 666 \text{ Wh} \approx 0.71$ recharges
Lithium600:	$512 \text{ Wh} * 0.85 / 666 \text{ Wh} \approx 0.65$ recharges
Lithium700:	$672 \text{ Wh} * 0.85 / 666 \text{ Wh} \approx 0.86$ recharges
Lithium1200:	$1008 \text{ Wh} * 0.85 / 666 \text{ Wh} \approx 1.29$ recharges
Lithium1800:	$1229 \text{ Wh} * 0.85 / 666 \text{ Wh} \approx 1.57$ recharges
Lithium3000:	$2560 \text{ Wh} * 0.85 / 666 \text{ Wh} \approx 3.27$ recharges

THESE ESTIMATES CONSIDER A 15% EFFICIENCY LOSS DURING POWER CONVERSIONS AND CHARGING.