



POWERSTATIONHQ

## Power Terms Glossary

Covers: PS (Power Stations), PB (Power Banks), EV (EV Chargers), SP (Solar Panels)

Term	Description	Refers To	Key Purpose
AC Output	Alternating current output similar to home outlets.	PS	Buying
Ampere-hour (Ah)	Battery capacity in amps over an hour, used for larger batteries.	PS, EV	Buying
Anderson Connector	High-current connector for DC connections, used in solar and battery systems.	PS, SP	Buying
Battery Management System (BMS)	Internal system regulating battery safety and performance.	PB, PS	Knowledge, Maintenance
CCS Combo	Combined Charging System for fast DC charging in EVs.	EV	Buying
CHAdeMO	Fast-charging standard used by some Japanese EVs.	EV	Buying
Car Port Charging	12V charging from vehicle socket.	PB, PS	Buying
Current (A)	Flow of electric charge, determines charging speed.	PS, PB, EV, SP	Buying
Cycle Life	Number of charge/discharge cycles before battery capacity drops.	PB, PS	Buying, Maintenance
DC Output	Direct current output for charging or powering devices.	PS, EV	Buying
Deep Cycle Battery	Battery designed for repeated full discharges.	PS	Buying
ESB Plug	Electric Vehicle charging plug standard in Ireland.	EV	Buying
Fast Charging	Capability to charge devices more quickly than standard rates.	PB, EV	Buying
Folding Solar Panel	Portable panel that folds for easier transport.	SP	Buying
Ground Fault Protection	Shuts off power if leakage current is detected.	PS, PB, EV, SP	Maintenance
IP Rating	Ingress Protection from dust and water (e.g., IP67).	PS, PB, EV, SP	Buying, Maintenance
IPX4/IPX7	Water-resistance rating; IPX4 resists splashing, IPX7 survives submersion.	PB, SP	Buying
Inverter	Converts DC to AC power for household devices.	PS, SP	Buying
LFP Battery	Lithium Iron Phosphate battery, safer and longer life.	PS, EV	Buying
Level 2 Charging	EV charging level using 240V, faster than Level 1.	EV	Buying, Knowledge
Lithium-ion	Common high-energy battery type in most devices.	PS, PB, EV, SP	Buying
Load Balancing	Distributes power between multiple EVs safely.	EV	Buying
MPPT	Solar charge controller tech for max efficiency.	PS, SP	Buying, Knowledge
Milliampere-hour (mAh)	Battery capacity indicating charge a battery can hold.	PB, PS	Buying
Monocrystalline	Efficient solar panel type with higher cost.	SP	Buying
Nominal Voltage	Typical voltage output of a battery under normal use.	PS	Knowledge
Overcharge Protection	Prevents battery damage from being charged too long.	PS, PB, EV, SP	Maintenance
Overload Protection	Safety feature to prevent too much current draw.	PS, PB, EV, SP	Maintenance
Overvoltage Protection	Prevents device damage from excessive voltage.	PS, PB, EV, SP	Maintenance
Parallel Connection	Batteries connected to increase capacity (Ah).	SP, PS	Buying
Pass-Through Charging	Charge a device while battery itself is charging.	PB	Buying
Polycrystalline	Cheaper, less efficient type of solar panel.	SP	Buying
Quick Charge (QC)	Fast-charging tech mainly for Android devices.	PB	Buying
Rigid Solar Panel	Fixed and durable panel for permanent mounting.	SP	Buying
Self-discharge Rate	Battery power lost over time when not in use.	PS, PB, EV, SP	Knowledge
Series Connection	Batteries connected to increase voltage (V).	SP, PS	Buying
Short Circuit Protection	Circuit safety to shut off power when short detected.	PS, PB, EV, SP	Maintenance
Silent Inverter	Low-noise power conversion for indoor use.	PS	Buying
Smart Charging	Automatically adjusts charge to device needs.	EV, PB	Buying
Smart EV Charger	Can be programmed or app-controlled to optimize charging times.	EV	Buying
Solar Charge Controller	Regulates current from panel to battery to avoid overcharge.	SP	Buying
Solar Efficiency	Percentage of sunlight converted into electricity.	SP	Buying
Solar Input	Port or capability for solar panel charging.	PS, SP	Buying
Solar Panel Connector (MC4)	Standard plug for solar panel cables.	SP	Buying

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Surge Protection	Shields devices from voltage spikes.	PS, PB, EV, SP	Buying
Surge Wattage	Peak power a device can deliver temporarily.	PS	Buying
Tethered Cable	EV charger with fixed charging cable.	EV	Buying
Thermal Cutoff	Disconnects power if temperatures exceed safe levels.	PB, PS	Maintenance
Trickle Charge	Slow charging used to maintain full battery.	PS, PB, EV, SP	Maintenance
Type 1 Connector	Older EV charging plug common in Japan and US imports.	EV	Buying
Type 2 Connector	Standard connector for EV charging in Europe.	EV	Buying
USB-A	Standard rectangular USB port for charging/data.	PB	Buying
USB-C	Modern reversible USB port, supports high-speed charging/data.	PB, PS	Buying
USB-C PD	Fast charging standard for USB-C, supports high power delivery.	PB, PS	Buying
Untethered Charger	EV charger with socket only, cable separate.	EV	Buying
Voltage (V)	Electrical potential difference, affects compatibility and safety.	PS, PB, EV, SP	Buying, Maintenance
Wall Socket Charging	AC-based charging from home outlet.	PS, PB, EV, SP	Buying
Watt (W)	Unit of power indicating energy transfer rate.	PS, PB, EV, SP	Buying
Watt-hour (Wh)	Amount of energy stored or used over time.	PS, PB, EV, SP	Buying
kWh (Kilowatt-hour)	Energy capacity used by EVs and home batteries.	PS, EV	Buying