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PORTABLE POWER

Portable Power Station CSPS-Pro

LiFePO4 power stations, 518 Wh – 2 240 Wh — 4 000+ cycles, ~1.3 h AC fast charge, expandable to 6.72 kWh

2 240 Wh UP TO LiFePO4 CAPACITY

4 000+ CYCLES TO 80% CAPACITY

- **LiFePO4 · 4 000+ cycles** — a decade of daily use
- **~1.3 h AC fast charge** — bi-directional inverter
- **Up to 1 000 W solar** — sun-only full charge from ~1.6 h
- **Expandable to 6.72 kWh** — CSPS2200-Pro + 2 battery boxes

Battery that outlives the trip

- Automotive-grade LiFePO4: 4 000+ cycles to 80% capacity
- Large laminated cells — low heat, <0.5 mΩ internal resistance
- 6-way BMS: OVP · UVP · OCP · SCP · OTP · UTP

Fast in, fast out

- Bi-directional inverter — 0→100% from the wall in ~1.3 h
- MPPT solar input up to 1 000 W: sun-only recharge from ~1.6 h
- Smart Power Charge drives resistive loads up to 2 800 W (CSPS2200-Pro)

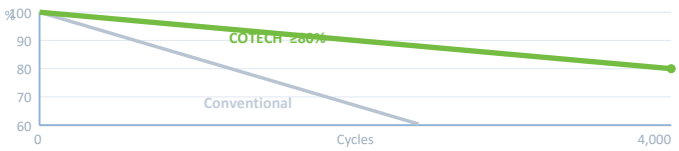
Grows with your needs

- CSPS2200-Pro stacks up to 2 × CSPB2200E boxes — 6 720 Wh total
- AC, USB-C PD 100 W, USB-A, DC5525 and car port on every model
- Smart APP + TFT screen; ultra-low standby drain

Key specifications

Capacity	**518 / 1 030 / 2 240 Wh**
Chemistry	**LiFePO4 · 4 000+ cycles**
AC output	**up to 2 400 W pure sine**
AC fast charge	**≈1.3 h (0→100%)**
Solar input	**up to 2 × 500 W MPPT**
USB-C PD	**up to 100 W**
Expansion	**up to 6 720 Wh (2200-Pro)**
Weight	**7.5 / 12 / 22.5 kg**

PERFORMANCE WARRANTY



LiFePO4 | 4 000+ cycles | 6-way BMS

WHY COTECH

Cycle-tested at the factory
Every unit is full charge / discharge tested before shipment

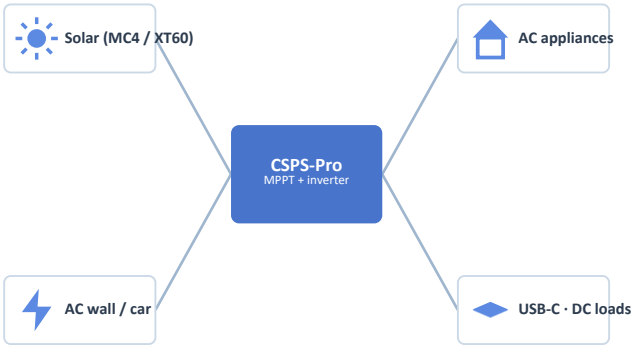
IDEAL FOR

- Camping & overlanding
- Home backup
- Remote work
- Film & photo
- Vanlife & marine
- Job sites

APPLICATIONS

Backup | Outdoor | Work | Off-grid

SYSTEM TOPOLOGY



CERTIFICATION & QUALIFICATION

CE | UKCA | RoHS | UN38.3 | ISO 9001

Capacity at 25 °C, 0.2C discharge; usable energy depends on load & temperature. Specifications subject to change.

Portable Power Station CSPS-Pro — technical data

Model	CSPS500-Pro	CSPS1000-Pro	CSPS2200-Pro
Battery			
Capacity	**518 Wh**	**1 030 Wh**	**2 240 Wh**
Cell chemistry		LiFePO4 (LFP)	
Cell	**27 Ah @ 3.2 V**	**23 Ah @ 3.2 V**	**50 Ah @ 3.2 V**
Cycle life		4 000+ cycles to 80% capacity	
BMS		OVP · UVP · OCP · SCP · OTP · UTP	
Charging (input)			
AC input	**500 W**	**1 000 W**	**2 000 W**
AC full charge		≈1.3 h (0 → 100%)	
Solar input (MPPT)	**XT60 · 200 W**	**XT60 · 800 W**	**2 × XT60 · 500 W each**
Solar voltage range		DC 12 – 59 V	
Solar fast charge (ideal)	**≈3.1 h**	**≈1.6 h**	**≈2.7 h**
Output			
AC output (pure sine)	**500 W**	**1 200 W (230 V) / 1 000 W (120 V)**	**2 400 W (230 V) / 2 000 W (120 V)**
AC sockets	**2 ×**	**2 ×**	**4 ×**
USB-C	**1 × 100 W**	**2 × 100 W**	**45 W + 100 W**
USB-A	**3 × 18 W**	**2 × 18 W**	**2 × 18 W**
DC 5525 / car port		120 W (12 V / 10 A)	
Smart Power Charge	—	—	**resistive loads up to 2 800 W**
General			
Display / control		APP + TFT screen	
Operating / storage temp.		0 ~ 50 °C / −20 ~ 60 °C	
Material		ABS + PC / metal	
Weight	**7.5 kg**	**12 kg**	**22.5 kg**
Dimensions (mm)	**333×184×224**	**333×184×224**	**405×288×255**
Expansion — CSPS2200-Pro			
Battery box	—	—	**CSPB2200E · 2 240 Wh LiFePO4**
Max system	—	—	**2 boxes → 6 720 Wh total**
Box charge / discharge	—	—	**51.1 V · 50 A / 100 A**
Box DoD · weight · size	—	—	**95% · 18 kg · 360×288×185 mm**

MECHANICAL & SYSTEM

Mechanical	Data
Housing	**Flame-retardant ABS + PC**
Cooling	**Temperature-controlled fan**
Display	**TFT / LCD status screen**
Carry	**Fold-flat handle / trolley wheels**
Sockets	**EU · US · UK plug standards**
Safety	**6-way BMS + overcurrent breaker**

COTECH SOLAR — vertically-integrated manufacturing

20 GW shipped

120+ countries

CE · UN38.3 certified

IDEAL FOR

- Camping & overlanding
- Home backup
- Remote work
- Film & photo
- Vanlife & marine
- Job sites

Notes

- 4 000+ / 6 000+ cycles to 80% capacity — roughly a decade of daily cycling.
- Solar charge times assume ideal irradiance at max PV input; real-world varies.
- BMS: over/under-voltage, over-current, short-circuit, over/under-temperature.

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PORTABLE POWER

Solar Generator CSG Series

Wheeled LiFePO4 solar generators, 1 – 15.4 kWh — high-voltage MPPT solar, EPS backup under 20 ms

15.4 kWh EXPANDABLE CSG-5000 × 3 PACKS

7 000 W MAX SOLAR INPUT (CSG-5000)

- **LiFePO4 · up to 6 000 cycles** — built for daily cycling
- **EPS < 20 ms** — keeps loads alive through outages
- **Up to 7 000 W solar** — high-voltage MPPT (500 V)
- **Expandable packs** — 5.12 → 15.36 kWh (CSG-5000)

From day-trip to whole-home

- CSG-1200 / 2200: grab-and-go 1 030 / 2 240 Wh with trolley wheels
- CSG-3600: 3 584 Wh workhorse, 3 600 W AC output
- CSG-5000: 5 120 Wh cabinet, stackable to 15.36 kWh

Real backup power

- CSG-5000 EPS output: 5 000 W, switchover under 20 ms
- Grid input / output 5 000 W — charge, pass-through, backup
- Pure-sine AC on all models, EU / US / UK sockets

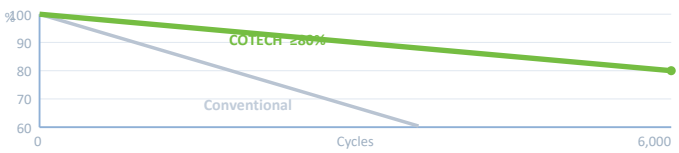
Solar-first charging

- MPPT solar input on every model — up to 7 000 W at 500 V
- CSG-3600 accepts 5 500 W PV: full in about an hour of good sun
- AC + solar dual charging; APP / TFT / Web monitoring (3600 / 5000)

Key specifications

Capacity	**1.03 / 2.24 / 3.58 / 5.12 kWh**
Expansion	**CSG-5000 → 15.36 kWh**
Chemistry	**LiFePO4 · 4 000 – 6 000+ cycles**
AC output	**up to 5 000 W pure sine**
EPS backup	**5 000 W · < 20 ms (5000)**
Solar input	**up to 7 000 W · 500 V MPPT**
Grid in / out	**5 000 W (CSG-5000)**
Weight	**13 – 90 kg**

PERFORMANCE WARRANTY



LiFePO4 | up to 6 000 cycles | EPS < 20 ms

WHY COTECH

Cycle-tested at the factory
Every unit is full charge / discharge tested before shipment

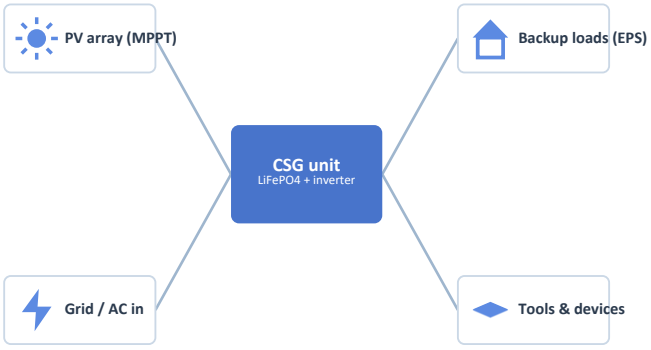
IDEAL FOR

- Home backup (EPS)
- Off-grid cabins
- Job sites & tools
- Camping & RV
- Telecom & pumps
- Emergency response

APPLICATIONS

Backup | Off-grid | Job sites | RV & camp

SYSTEM TOPOLOGY



CERTIFICATION & QUALIFICATION

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Capacity at 25 °C, 0.2C discharge; usable energy depends on load & temperature. Specifications subject to change.

Solar Generator CSG Series — technical data

Model	CSG-1200	CSG-2200	CSG-3600	CSG-5000
Battery				
Capacity	1 030 Wh	2 240 Wh	3 584 Wh	5 120 Wh × N (N ≤ 3)
Cell chemistry	LiFePO4 (LFP)			
Cell / nominal current	23 Ah @ 3.2 V	50 Ah @ 3.2 V	70 A nominal	100 A nominal
Cycle life (to 80%)	4 000+	4 000+	4 000+	6 000+
BMS	OVP · UVP · OCP · SCP · OTP · UTP			
Charging (input)				
Solar input (MPPT)	MC4 · 800 W	2 × MC4 · 600 W each	5 500 W	7 000 W (500 V / 14 A)
Solar voltage range	DC 12 – 59 V	DC 12 – 59 V	High-voltage PV	up to 500 V PV
AC input	1 000 W	2 000 W	3 600 W	2 000 W + grid 5 000 W
External battery ports	1 ×	2 ×	2 ×	2 × (expansion packs)
Output				
AC output (pure sine)	1 200 W (230 V) / 1 000 W (120 V)	2 400 W / 2 000 W	3 600 W	5 000 W
AC sockets	2 ×	3 ×	4 ×	4 × + EPS + grid
EPS backup output	—	—	—	5 000 W · switchover < 20 ms
Grid output	—	—	—	5 000 W (220–240 V)
AC voltage · 50/60 Hz	220–240 / 100–120 V	220–240 / 100–120 V	220–240 V	220–240 V
General				
Monitoring	LED status	LED status	APP · TFT · Web	APP · LCD · Web
Operating temp.	0 ~ 50 °C	0 ~ 50 °C	−10 ~ 40 °C	0 ~ 50 °C
Storage temp.	−20 ~ 60 °C			
Material	ABS + PC	ABS + PC	ABS + PC + metal	Metal
Weight	13 kg	22 kg	36 kg	90 kg
Dimensions (mm)	430×219×309	456×286×343	682×338×647	651×408×670 (721×408×809 w/ base)

MECHANICAL & SYSTEM

Mechanical	Data
Housing	Flame-retardant ABS + PC
Cooling	Temperature-controlled fan
Display	TFT / LCD status screen
Carry	Fold-flat handle / trolley wheels
Sockets	EU · US · UK plug standards
Safety	6-way BMS + overcurrent breaker

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IDEAL FOR

- Home backup (EPS)
- Off-grid cabins
- Job sites & tools
- Camping & RV
- Telecom & pumps
- Emergency response

Silent power for life off the grid.

LiFePO4 portable power from a Top-50 solar maker — pocket-size to whole-home.

LiFePO4 safe — 4 000+ cycles · 6-way BMS

Fast recharge — ~1.3 h AC · MPPT solar

Expandable — battery boxes & packs

Global sockets — EU · US · UK standards

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