

SolarCan (2 kWh – 10 kWh)

TSOL-DCU2000Lite/TSOL-DB2000Lite



Smart Lithium Battery with Optimizer

Flexible Mix-and-Match: Supports seamless parallel connection of battery packs with different capacities, ages, and SOH.

Automatic Balancing: Advanced balancing logic eliminates the need for full-pack replacement, making capacity expansion more cost-effective.



Designed for High-Power PV Modules

Supports up to 4 PV modules, compatible with modules up to 600W. Maximum input power up to 2400W.



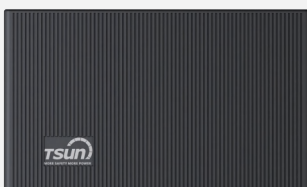
Industrial-Grade Thermal Management

Integrated Aluminum Extrusion: 7500T one-piece aluminum molding process ensures a robust, compact structure with superior heat dissipation and high durability.



Stackable & Modular Design

Flexible Stackable Expansion: Effortless capacity expansion up to 10 kWh via a simple stackable design, adaptable to evolving household energy demands.



TSOL-DCU2000Lite

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Technical Data

Model	TSOL-DCU2000Lite
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PV Input(PV)

Recommended Module Power (Wp)	300 ~ 600+
Max. PV Input Power (W)	2400
Start up Voltage @Rated Condition (V)	15
Max. Input Voltage per Input (V)	60
Operating Voltage Range per Input (V)	13 ~ 60
Short Circuit Current per Input (A)	40
Max. Input Current per Input (A)	32
Quantity of Inputs	2
No. of PV Modules per Input	2 (Parallel)

Battery (DC)

Battery Type	LiFePO4
Cell Type	314 Ah
Life Cycle	10,000 ^[1]
Battery Capacity (Wh)	2010
Max. expansion Capacity (kWh)	10.05 DCU2000Lite (2.01 kWh) + 4 x DB2000Lite (8.04 kWh)
Nominal Voltage (V)	51.2
Operating Voltage Range (V)	43.2 ~ 57.6
Nominal Discharge Power (W)	1000
Max. Discharge Current (A)	30
Max. Charge Power (W)	2400 (When Configuring DB2000Lite)
Nominal Charge Current (A)	25

Battery Output (DC to Microinverter)

Max. Output Power (W)	1000
Nominal output power (W)	800 ^[2]
Max. Current (A)	30
Output Voltage Range (V)	20 ~ 45

Efficiency

MPPT Efficiency	99.9 %
Battery Charge/Discharge Efficiency	94.0 %

Mechanical Data

Dimensions (W×H×D mm)	380 x 224.5 x 180 (SolarCan) 380 x 203.7 x 180(DB2000Lite)
Weight (kg)	22 (SolarCan) 20(DB2000Lite)

General Data

Communication	Server : WiFi (Bluetooth) + RS485
Ingress Protection	IP65
Cooling	Natural Convection
Discharging temperature range	-20 – 55 °C*
Relative Humidity	0 – 90 %, Non Condensing
Max. Operating Altitude without Derating (m)	2000
Certification	CE, WEEE, UN38.3, ROHS, REACH

[1]Designed for a lifespan of 10,000 cycles at 25 °C ambient temperature.

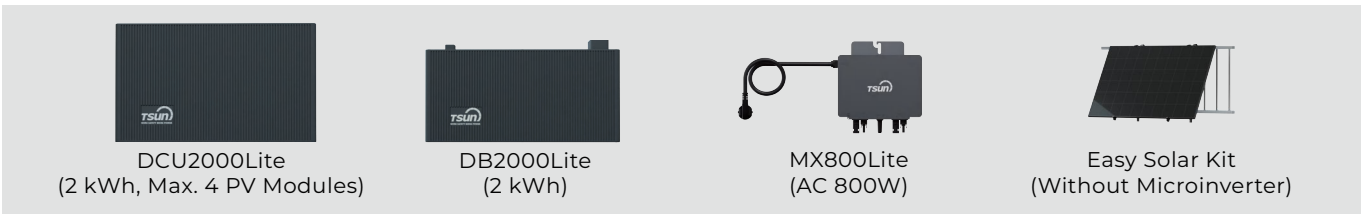
[2]According to the legal requirements of certain countries, output load limits are implemented to 800W.

Technical Data

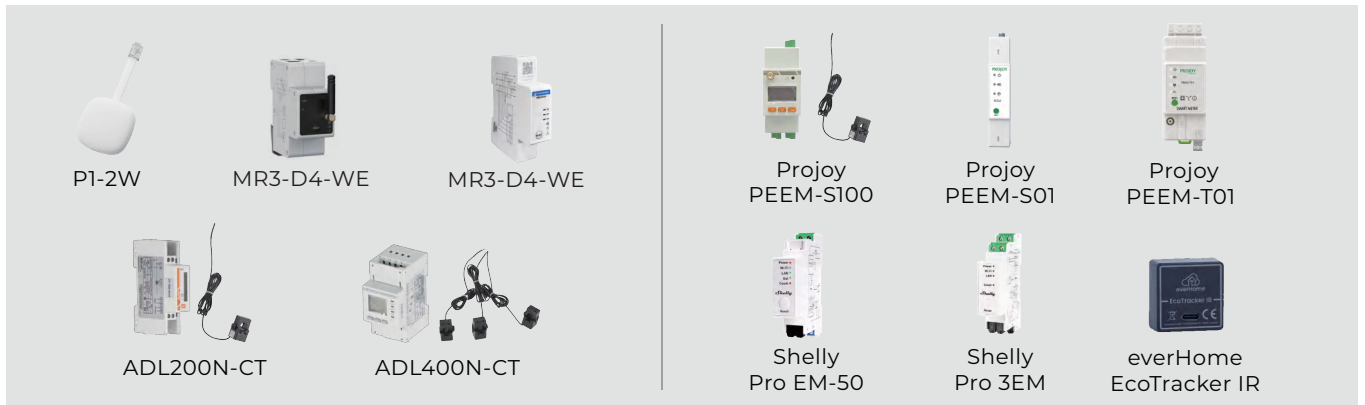
Model	TSOL-DB2000Lite
Battery Specifications	
Battery Type	LiFePO ₄
Battery Capacity (Wh)	2010
Nominal Voltage (V)	51.2
Operating Voltage Range (V)	43.2 – 57.6
Nominal Discharge Power (W)	800
Max. Discharge Current (A)	25
Mechanical Data	
Dimensions (W×H×D mm)	380 x 203.7 x 180
Weight (kg)	20
General Data	
Ingress Protection	IP65
Cooling	Natural Convection
Charging Temperature Range	0 – 55 °C*
Discharging Temperature Range	-20 – 55 °C*
Relative Humidity	0 – 90 %, Non Condensing
Max. Operating Altitude Without Derating (m)	2000
Certification	CE, WEEE, UN38.3, ROHS, REACH

*Support -20°C startup and automatically self-heat the device for a certain time to the charge temperature range.

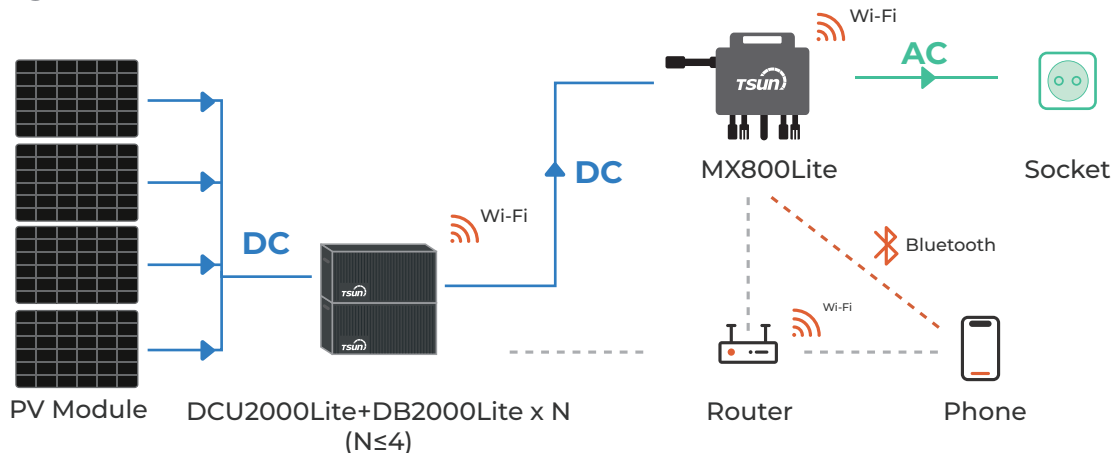
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System Diagram



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