

# 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.



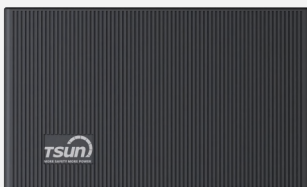
### Industrial-Grade Thermal Management

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

<b>Model</b>	<b>TSOL-DCU2000Lite</b>
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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 <sup>[1]</sup>
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 <sup>[2]</sup>
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.

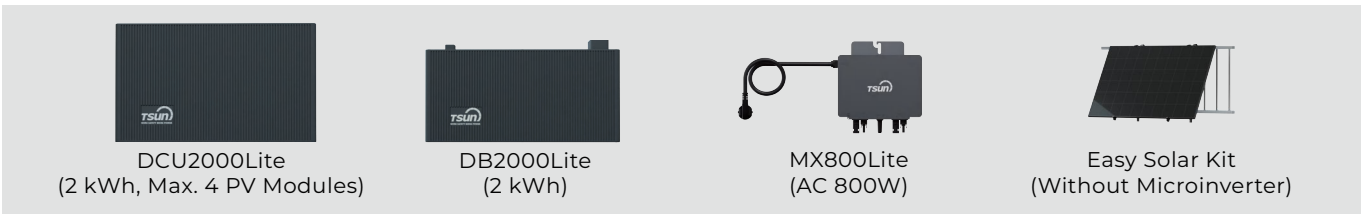
[2]According to the legal requirements of certain countries, output load limits are implemented to 800W.

# Technical Data

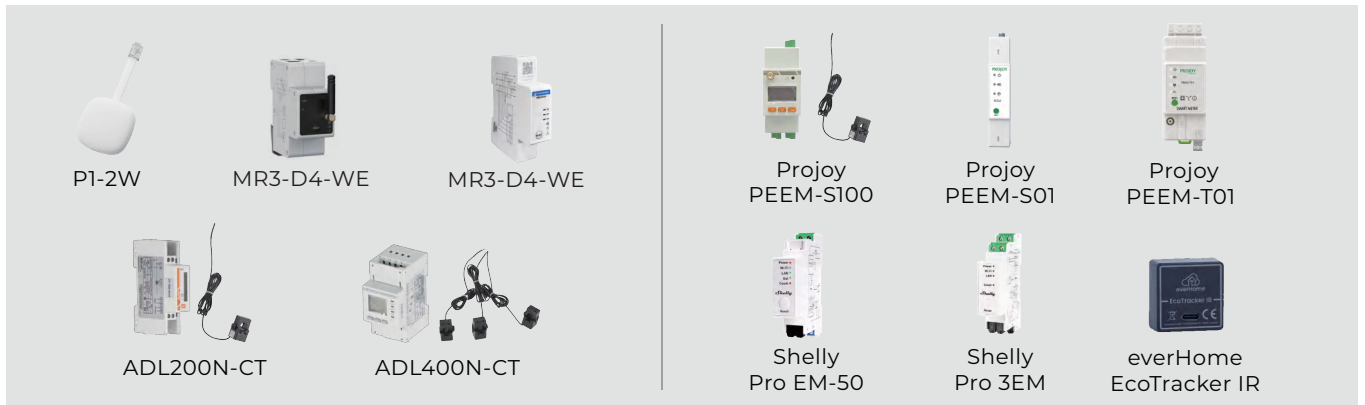
Model	TSOL-DB2000Lite
<b>Battery Specifications</b>	
Battery Type	LiFePO <sub>4</sub>
Battery Capacity (Wh)	2010
Nominal Voltage (V)	51.2
Operating Voltage Range (V)	43.2 – 57.6
Nominal Discharge Power (W)	800
Max. Discharge Current (A)	25
<b>Mechanical Data</b>	
Dimensions (W×H×D mm)	380 x 203.7 x 180
Weight (kg)	20
<b>General Data</b>	
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.

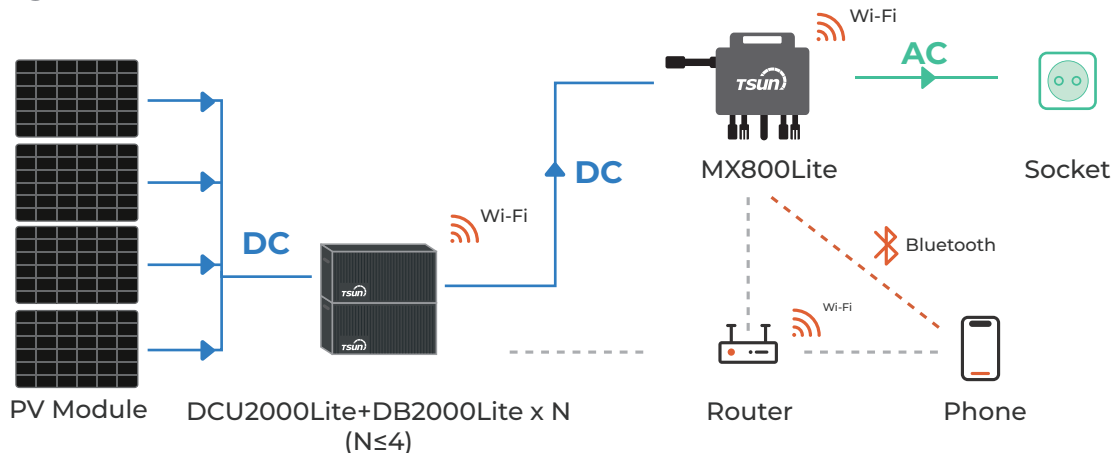
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## System Diagram



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