

Balcony Solar Station

Micro Hybrid Storage Unit
LT-Powall BCU2000/B2000



BCU2000+B2000



VDE 4105

EN 50549-10

UN38.3



Zero Export



-20°C ~ +55°C
Working Temperature



All-in-one Unit



Built-in WiFi, Bluetooth
APP Remote Monitoring



Charge Battery from
Module and Grid

Technical Data

Model		LT-Powall BCU2000	B2000
PV Input(PV)			
Recommended Module Power (Wp)		300 ~ 700+	
Quantity of PV Module		1 to 4	
Max. PV Input Power (W)		2800+	
Start up Voltage @Rated condition (V)		22	
Operating Voltage Range per Input (V)		16 ~ 60	
MPPT Voltage Range @ Nominal Power (V)		27.7 ~ 54	
Max. Input Voltage per Input (V)		60	
Nominal Input Voltage (V)		42	
Short Circuit Current per Input (A)		25	
Max. Input Current per Input (A)		18	
Quantity of MPPTs		4	
Battery (DC)			
Battery Capacity (Wh)		2048	
Battery Type		LiFePO ₄	
Nominal Voltage (V)		51.2	
Operating Voltage Range (V)		43.2 – 58.4	
Max. Discharge Power (W)		2000	
Max. Charge Power (W)		2000	
Max. System Capacity (kWh)		10.24 (1 MSU + 4 * Stackable Battery)	
AC Port (On-grid)			
Max AC Output Power (W)	2000	800	
Max. AC Output Current (A)	10	4	
Max. AC Input Power (W)		2000	
Max. AC Input Current (A)		11	
Nominal AC Voltage (V)		220/230/240, L/N/PE	
Nominal AC Frequency (Hz)		50/60	
Power Factor		>0.99 default 0.8 leading ... 0.8 lagging	
THDI		≤3%@100% Load	
AC Port (Off-grid) (Optional)			
Max. AC Output Power (W)		2000	
Max. AC Output Current (A)		10	
Nominal AC Voltage (V)		220/230/240, L/N/PE	
Nominal AC Frequency (Hz)		50/60	
Switch Time (ms)		< 20	

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Efficiency

Peak Inverter Efficiency	97.0%
MPPT Efficiency	99.9%
Battery Charge/Discharge Efficiency	95%/95%
Consumption (Without Load)	< 25W
Self-consumption (Device Shutdown)	< 1W

Mechanical Data

Dimensions (W×H×D mm)	455×320×280(MSU) / 455x205x280(B2000)
Net/Gross Weight	32/34.7 kg (Gen 2) 26.8/29.5 kg (Gen 3)

General Data

Communication	Server : WiFi (Bluetooth) / Battery: RS485
Extra Communication Ports	2 * RS485(Dispatch+Meter) (Gen 2) / 3 * RS485(Dispatch+Meter+Parallel) (Gen 3)
Ingress Protection	IP65
Cooling	Natural Convection
Operating Ambient Temperature Range	-20 ~ +55 °C (Load shedding over 45°C)
Relative Humidity	0-95%, Non Condensing
Max. Operating Altitude Without Derating (m)	2000
Display	SOC Light
Type of Isolation	Reinforced insulation
Protection Class	I
Overvoltage Category	PV II ; AC III

Related Products

Micro Hybrid Storage Unit (BCU)

Battery Pack (B2000)

Easy Solar Kit (Without Microinverter)

Smart Meter (Direct Connected)

Smart Meter (CT Connected)

Diagram

