

UNITY MODEL-B

Hybrid Integrated System



KEY FEATURES



DURABILITY

High-grade design for all environments.



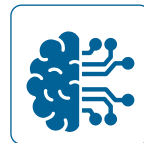
SAFETY

Self-contained batteries with enhanced fire safety.



EFFICIENCY

Delivers reliable power with minimal loss.



INTELLIGENCE

Advanced BMS for safer performance.



SCALABILITY

Flexible DC design for large scale operations.



CONTROL

Easy monitoring and remote management.



1800 2026 252

TECHNICAL PARAMETERS

MODEL B - LV	Model B-100-261	Model B-250-522	Model B-500-1044
DC side PV			
Rated PV Power (kW)	100 kW	250 kW	500 kW
Peak PV Loading (kW)	125 kW	300kW	600 kW
Max PV Input Voltage (V)	1000V	1000V	1000V
MPPT Voltage Range (V)	200~850V	200~850V	200~850V
Max PV Input Voltage (V)	1000V	1000V	1000V
Battery Parameters			
Cell Type	LFP	LFP	LFP
Battery Voltage Range (V)	600-1000V	600-1000V	600-1000V
Recommended Battery Config.	261 kWh	522 kWh	1044 kWh
Charge/ Discharge Rate	0.5C/0.5P	0.5C/0.5P	0.5C/0.5P
Max Charge/ Discharge Power	100 kW	250 kW	500 kW
Cooling Mode	Liquid Cooling	Liquid Cooling	Liquid Cooling
AC Side			
Rated Apparent Power (kVA)	100 kVA	250 kVA	500 kVA
Max AC Power (kVA)	110 kVA	275 kVA	550 kVA
Rated Voltage (V)	400V	400V	400V
Voltage Range (AC)	360~440V	360~440V	360~440V
Power Factor	>0.99 (-0.8~0.8 adjustable)	>0.99 (-0.8~0.8 adjustable)	>0.99 (-0.8~0.8 adjustable)
AC Standard	3/N/PE	3/N/PE	3/N/PE
THDU	<3% @ Rated Power	<3% @ Rated Power	<3% @ Rated Power
Rated Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Overload Capacity	110% overload (long time)	110% overload (long time)	110% overload (long time)
General Parameters (Hybrid Inverters)			
Operating Temp Range	-25~60°C (Decration above 45 °C)	-25~60°C (Decration above 45 °C)	-25~60°C (Decration above 45 °C)
Operating Humidity	5%-95% R.H	5%-95% R.H	5%-95% R.H
IP Rating	PCS: IP55 Battery: IP54	PCS: IP55 Battery: IP54	PCS: IP55 Battery: IP54
Communication Port	RS485/ CAN / ETH/ Dry Contact	RS485/ CAN / ETH/ Dry Contact	RS485/ CAN / ETH/ Dry Contact
Noise	≤75dB@1m	≤75dB@1m	≤75dB@1m
Cooling	Intelligent Air Cooling	Intelligent Air Cooling	Intelligent Air Cooling