

UHO0 Series

Home Battery Energy Storage System



Product Introduction

UHO0, a hybrid all in one BESS, compatible with high voltage LFP battery system, can achieve the best function to maximize clean solar power usage for your home.

Convenient

Heat stimulation for the best layout

Quiet

Less than 25 db, no noise pollution

Flexible

IP65 up to 6kW, 5/10kWh optional

Adaptative

Self-power, backup, and load shifting modes

Independent

No additional modules and inverters are required

Smart

Support VPP and AIOT

- UHO0 will store photovoltaic or grid energy. If there is not enough solar energy to support consumption, the battery will be discharged by UHO0 to meet the power demand.
- Autonomous strategy.

Technical parameters

Model	HBCA-3, 6-5 HBCA-3.6-10	HBCA-4, 6-5 HBCA-4.6-10	HBCA-5-5 HBCA-5-10	HBCA-6-5 HBCA-6-10
PV Input				
Absolute max Voltage (d.c.V)			600	
MPPT Voltage Range (d.c.V)			100...550	
Max DC Input Power (W)	4800	6200	6650	8000
Start-up Voltage (d.c.V)			90	
Rated Operating Voltage (d.c.V)			360	
Max Input Current (d.c.A)			12.5/12.5	
Max inverter backfeed current to array (d.c.A)			0	
Isc PV (d.c.A)			18/18	
NO.of MPPT Trackers			2	
NO.of Strings per MPPT Tracker			1	
Battery Model				
Battery Capacity	MF20425		MF40925	
LifePO4 5.12kWh	LiFePO4 5.12kWh		LiFePO4 10.24kWh	
Nominal Battery Voltage (d.c.V)	204.8		409.6	
Battery Voltage Range (d.c.V)	160...227.2		320...454.4	
Max Charge/Discharge Current (d.c.A)			25/25	
Cycling times			6500	
AC Input/Output				
Rated output Power (W)	3600	4600	5000	6000
Rated Apparent Power to Grid (VA)	3600	4600	5000	6000
Max Apparent Power to Grid (VA)	3600	4600	5000	6000
Max Apparent Power from Grid (VA)	7200	9200	10000	12000
Rated Voltage (a.c.V)			220/230/240	
Rated Frequency (Hz)			50/60	
Rated AC Current to Grid (a.c.V)	15.6	20	21.7	26.1
Max output current (a.c.A)	17.2	22	23.9	28.7
Max Current from Grid (a.c.A)	31.2	40	43.4	52.2
Inrush current (a.c.A)			16 a.c.A (peak), 11.3 us (duration)	
Max output fault current (a.c.A)			57 (peak), 40 (rms)	
AC output Maximum output overcurrent protection (a.c.A)			40	
AC input power factor			-0.8...+0.8	
AC output power factor			1[-0.8...+0.8 adjustable]	
THDi			<3%	
EPS Output (With Battery)				
Max Output Power (W)	3600	4600	5000	6000
Rated Apparent Power (VA)	4320	5520	6000	7200
Max Apparent Power (VA)	4320	5520	6000	7200
Rated Voltage (a.c.V)			230 (±2%)	
Normal Frequency (Hz)			50/60 (±0.2%)	
Max Output Current (a.c.A)	18.8	24	26.1	31.3
Inrush current (a.c.A)			16 a.c.A (peak), 11.3 us (duration)	
Max output fault current (a.c.A)			57 (peak), 40 (rms)	
EPS output Maximum output overcurrent protection (a.c.A)			40	
Switch time (ms)			<10	
THDv @Linear Load (%)			<2	
Power Factor			-0.8...+0.8	
Efficiency				
PV Max Efficiency (%)			97.6	
PV Europe Efficiency (%)			97	
PV Max MPPT Efficiency (%)			99.9	
Battery Charge by PV Max Efficiency (%)			98	
Battery Discharge Efficiency (%)			96.7	
Protection				
Over/Under voltage protection			Yes	
DC isolation protection			Yes	
DC injection monitoring			Yes	
Residual current detection			Yes	
Anti-islanding protection			Yes	
Over load protection			Yes	
Battery Input reverse polarity protection			Yes	
PV reverse polarity protection			Yes	
Surge protection			Yes	
Over heat protection			Yes	
General Data				
Dimension (W/D/H)(mm)	MF20425		MF40925	
550*233*1125	550*233*1125		550*233*1750	
Dimension of Packing (W/D/H)(mm)	655*302*1390		655*302*2085	
Net weight (kg)	68		115	
Gross weight (kg)	78		130	
Operation Temp (°C)			-10...+55	
Relative Humidity (%)			0...95	
Altitude (m)			≤3000	
Ingress Protection			IP65	
Cooling			Natural	
Inverter Topology			Non-Isolated	
Over voltage category			III(AC), II(DC)	
Protective class			Class I	
Active anti-islanding method			frequency shift	
Human Interface			LED/APP	
BMS Communication Interface			RS485/CAN	
Meter Communication Interface			RS485	
Noise Emission (dB)			<25	
Standby Power Consumption (W)			<5	
Safety and Approvals				
Safety			IEC62040.1:2019 IEC 62109-1&2 IEC62619 UN38.3 IEC60730-1 EN IEC 61000-6-2:2019 EN IEC 61000-6-3:2021	
EMC				
Country	AS/NZS 4777.2:2020 VDE-AR-N 4105:2018-11 MEA:2015 PEA:2016 EN 50549-2:2019 EN 50549-1+Poland deviation G99/1-6:2020 G98/1-6:2021 RD1699+UNE Distribution Code VDE0126+UTE C10/11: 2021			

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