

Low voltage battery

LR5000



Best Components

A-grade LFP cell from first-class supplier
BMS specially developed by Yelon



Stackable

5.12-81.92 kWh (16 modules)



Safe and Reliable

10-year warranty; 6000 cycles
Fool-proof design and protection functions



Easy to Install and Use

Plug and play connection
Minimum operation needed after first configuration



Compatible

Work with most of the popular inverters



Remote Control and Monitor

Check real-time status on APP
Alert pops up if any problem occurs

PERFORMANCE

Battery Type	LiFePO ₄
Battery Capacity [Ah]	100
Nominal Voltage [V]	51.2
Charging Cut-off Voltage [V]	57.6
Discharging End-of Voltage [V]	46
Recommended C Rate	0.5C
Recommended Charge/Discharge Current [A]	50
Max Charge/Discharge Current [A]	100
Peak Power Charge/Discharge Current [A]	120(15s)

GENERAL INFO

Net Weight [kg]	41
Dimension[W*D*H] [mm]	442×500×133
Charging Temp. Range [°C]	0~50
Discharging Temp. Range [°C]	-15~50
Communication	CAN/RS485
Cycle Life	> 6000 ^[1]
Protection Level	IP21
Cooling Method	Natural
Altitude [m]	≤4000
Scalability	Up to 16 units in parallel
Compatible Inverters	YELON, SOLIS, GOODWE, GROWATT, DEYE, SMA, VICTRON...
Certification & Safety Standard	CE/UN38.3/IEC62619

^[1] Test conditions: 0.2c charging/Discharging, @25°C, 80% DoD. Depending on the inverter limit DoD is up to 95%.



Low voltage battery

LW5000



Best Components

A-grade LFP cell from first-class supplier
 Optional: BYD cells or EVE cells
 BMS specially developed by Yelon



Expandable

5.12-81.92kWh (16 modules)



Safe and Reliable

10-year warranty; 6000 cycles
 Fool-proof design and protection functions



Easy to Install and Use

Plug-in connection
 Minimum operation needed after first configuration



Compatible

Work with most of the popular inverters



Remote Control and Monitor

Check real-time status on APP
 Alert pops up if any problem occurs

PERFORMANCE

Battery Type	LiFePO ₄
Battery Capacity [Ah]	100
Nominal Voltage [V]	51.2
Charging Cut-off Voltage [V]	57.6
Discharging End-of Voltage [V]	46
Recommended C Rate	0.5C
Recommended Charge/Discharge Current [A]	50
Max Charge/Discharge Current [A]	100
Peak Power Charge/Discharge Current [A]	120(15s)

GENERAL INFO

Net Weight [kg]	45±1
Dimension[W*D*H] [mm]	600x142x430
Charging Temp. Range [°C]	0~50
Discharging Temp. Range [°C]	-15~50
Communication	CAN/RS485
Cycle Life	> 6000 ^[1]
Protection Level	IP65
Cooling Method	Natural
Altitude [m]	≤4000
Scalability	Up to 16 units in parallel
Compatible Inverters	YELON, SOLIS, GOODWE, GROWATT, DEYE, SMA, VICTRON...
Certification & Safety Standard	CE/UN38.3/IEC62619

^[1] Test conditions: 0.2c charging/Discharging, @25°C, 80% DoD. Depending on the inverter limit DoD is up to 95%.



High voltage battery HT5000



Best Components

A-grade LFP cell from first-class supplier
BMS specially developed by Yelon



Stackable

4.8~14.4kWh (3 modules)



Safe and Reliable

10-year warranty; 6000 cycles
Fool-proof design and protection functions



Easy to Install and Use

Plug and play connection
Minimum operation needed after first configuration



Compatible

Work with most of the popular inverters



Remote Control and Monitor

Check real-time status on APP
Alert pops up if any problem occurs

PERFORMANCE

Battery Type	LiFePO ₄		
Number Of Batteries In Series	HT5000-1	HT5000-2	HT5000-3
Nominal Battery Energy [kWh]	4.8	9.6	14.4
Single Battery Capacity [Ah]	50Ah		
Nominal Voltage [V]	96	192	288
Charging Cut-off Voltage [V]	108	216	324
Discharging End-of Voltage [V]	84	168	252
Recommended Charge/Discharge Current [A]	25		
Max Charge/Discharge Current [A]	Charge: 45A; Discharge: 50A		

GENERAL INFO

HT5000 Net Weight [kg]	60(unit)
Dimension [W*D*H] [mm]	600X250X430(unit)
CT0500 Net Weight [kg]	15.2
CT0500 Dimension[W*D*H] [mm]	600X250X282
Charging Temp. Range [°C]	0~50
Discharging Temp. Range [°C]	-15~50
Communication	CAN/RS485
Cycle Life	> 6000 ^[1]
Protection Level	IP65
Cooling Method	Natural
Altitude [m]	≤2000
Scalability	Up to 3 units in series
Compatible Inverters	YELON, SOLIS, GOODWE, GROWATT, DEYE, SMA, VICTRON...
Certification & Safety Standard	CE/UN38.3/IEC62619

^[1] Test conditions: 0.2c charging/Discharging, @25°C, 80% DoD. Depending on the inverter limit DoD is up to 95%.



High voltage battery

HS5000



Best Components

A-grade LFP cell from first-class supplier
BMS specially developed by Yelon



Stackable

4.8~28.8kWh (6 modules)



Safe and Reliable

10-year warranty; 6000 cycles
Fool-proof design and protection functions



Easy to Install and Use

Plug and play connection
Minimum operation needed after first configuration



Compatible

Work with most of the popular inverters



Remote Control and Monitor

Check real-time status on APP
Alert pops up if any problem occurs

PERFORMANCE

Battery Type	LiFePO ₄					
Number Of Batteries In Series	HS5000-1	HS5000-2	HS5000-3	HS5000-4	HS5000-5	HS5000-6
Nominal Battery Energy [kWh]	4.8	9.6	14.4	19.2	24	28.8
Single Battery Capacity [Ah]	50Ah					
Nominal Voltage [V]	96	192	288	384	480	576
Charging Cut-off Voltage [V]	108	216	324	432	540	648
Discharging End-of Voltage [V]	84	168	252	336	420	504
Recommended Charge/Discharge Current [A]	25					
Max Charge/Discharge Current [A]	Charge: 45A; Discharge: 50A					

GENERAL INFO

HS5000 Net Weight [kg]	56(unit)
Dimension[W*D*H] [mm]	620X400X210(unit)
CS0500 Net Weight [kg]	17.6
CS0500 Dimension[W*D*H] [mm]	620X400X275
Charging Temp. Range [°C]	0~50
Discharging Temp. Range [°C]	-15~50
Communication	CAN/RS485
Cycle Life	> 6000 ^[1]
Protection Level	IP65
Cooling Method	Natural
Altitude [m]	≤2000
Scalability	Up to 6 units in series
Compatible Inverters	YELON, SOLIS, GOODWE, GROWATT, DEYE, SMA, VICTRON...
Certification & Safety Standard	CE/UN38.3/IEC62619/VDE-AR-E 2510-50

^[1] Test conditions: 0.2c charging/Discharging, @25°C, 80% DoD. Depending on the inverter limit DoD is up to 95%.



Single Phase Hybrid Inverter



SAFE & RELIABLE

- 1.5 Times PV Oversize
- Build in Anti-feed-in Function
- IP65 rated; outdoor installation is possible

FRIENDLY & FLEXIBLE

- Compact size and easy Installation
- Support generator input
- Multi-parallel connection up to 6 units
- Configurable operation modes
- Arc Fault Circuit Interrupter (AFCI)(Optional)

SMART & AUTOMATIC

- Smart Monitoring & Remote Firmware Upgrade
- On/off-grid automatic switching function

TECH SPECS	HV4K-1L	HV4K6-1L	HV5K-1L	HV5.5K-1L	HV6K-1L
PV Input					
Max. Input Power (kW)	6	6.9	7.5	8.3	9
Max. PV Voltage (V)	550				
MPPT Range (V)	80-500				
Full MPPT Range (V)	120 - 500	130 - 500	150 - 500	160 - 500	170 - 500
Normal Voltage (V)	360				
Startup Voltage (V)	100				
Max. Input Current (A)	18.5x2				
Max. Short Current (A)	26x2				
No. of MPP Tracker / No. of PV String	2/2				
Battery Port					
Max. Charge/Discharge Power (kW)	4.0	4.6	5.0	5.5	6.0
Max. Charge/Discharge Current (A)	120				
Battery Normal Voltage (V)	51.2				
Battery Voltage Range (V)	40 - 60				
Battery Type	Li-ion / Lead-acid etc.				
AC Grid					
Max Continuous Current (A)	19.0	22.0	23.0	26.0	28.0
Max Continuous Power (kVA)	4.0	4.6	5.0	5.5	6.0
Nominal Grid Current (A)	18.2 / 17.4	21.0 / 20.0	22.8 / 21.8	25.0 / 24.0	27.3 / 26.1
Nominal Grid Voltage (V)	198 to 242 @ 220 / 207 to 253 @ 230				
Nominal Grid Frequency (Hz)	50 / 60				
Power Factor	0.999 (0.8 leading-0.8 lagging)				
Current THD (%)	< 3				
AC Load Output					
Max Continuous Current (A)	19.0	22.0	23.0	26.0	28.0
Max Continuous Power (kVA)	4.0	4.6	5.0	5.5	6.0
Max Peak Current (A) (10min)	27.3 / 26.1	31.4 / 30	34.1 / 32.7	37.8 / 36.1	41.0 / 39.2
Max Peak Power (kVA) (10min)	6.0	6.9	7.5	8.3	9.0
Nominal AC Voltage L-N (V)	220 / 230				
Nominal AC Frequency (Hz)	50 / 60				
Switching Time (ms)	Seamless				
Voltage THD (%)	< 3				
Efficiency					
CEC Efficiency (%)	97.0				
Max. Efficiency (%)	97.6				
PV to Bat. Efficiency (%)	98.1				
Bat. between AC Efficiency (%)	96.8				
Protection					
PV Reverse Polarity Protection	Yes				
Over Current/Voltage Protection	Yes				
Anti-Islanding Protection	Yes				
AC Short Circuit Protection	Yes				
Residual Current Detection	Yes				
Ground Fault Monitoring	Yes				
Insulation Resister Detection	Yes				
PV Arc Detection	Yes				
Enclosure Protect Level	IP65 / NEMA4X				
General Data					
Dimensions (W x H x D, mm)	370 x 535 x 192				
Weight (kg)	20.5				
Topology	Transformerless				
Cooling	Intelligent Fan				
Relative Humidity	0-100%				
Operating Temperature Range (°C)	-25 to 60				
Operating Altitude (m)	<4000				
Noise Emission (dB)	<25				
Standby Consumption (W)	<10				
Mounting	Wall Bracket				
Communication with RSD	SUNSPEC				
Display & Communication Interfaces	LCD, LED, RS485, CAN, Wi-Fi, GPRS(Optional), 4G(Optional)				
Safety/EMC standard	IEC62109-1, IEC62109-2, IEC/EN 61000-6, IEC/EN 61000-3				
On-grid standard	EN 50549, G99, CEI 0-21, UNE 217001, UNE 217002, RD 647, IEC 62116, NTS, VFR				





Three Phase Hybrid Inverter

TECH SPECS	HV6K-3H	HV8K-3H	HV10K-3H	HV12K-3H
PV Input				
Max.PV input power	9000W	12000W	15000W	15000W
Max. input voltage	1000Vd.c			
MPPT voltage range	200~950Vd.c.			
Start up voltage	250Vd.c			
Max. input current	14/14Ad.c.	14/14Ad.c.	14/28Ad.c.	14/28Ad.c.
Max.short circuit PV	17/17Ad.c.	17/17Ad.c.	17/34Ad.c.	17/34Ad.c.
MPPT number	2			
No. of PV strings MPPT A/MPPT B	1/1	1/1	1/2	1/2
Battery				
Battery type	Lithium-ion			
Rated voltage	500Vd.c.			
Battery voltage range	160~600Vd.c.			
Max. charge/discharge current	50/50Ad.c.			
Max. charge/discharge power	6000W	8000W	10000W	12000W
Grid output / input				
Rated output power	6000W	8000W	10000W	12000W
Max continuous output apparent power	6600VA	8800VA	11000VA	12000VA
Max. AC output current	9.5Aa.c.	12.7Aa.c.	15.9Aa.c.	17.3Aa.c.
Max. continuous input apparent power	12000VA	16000VA	16000VA	16000VA
Max. AC input current	17.3Aa.c	23.1Aa.c	23.1Aa.c	23.1Aa.c
Rated AC voltage	230V/400Va.c.,3L+N+PE			
Rated grid frequency	50/60Hz			
Power factor at rated power/Adjustable power factor	>0.99(0.8 leading-0.8 lagging)			
THDi@rated power	<3%			
Backup output				
Rated output power	6000W	8000W	10000W	12000W
Max. output apparent power	6600VA	8800VA	11000VA	12000VA
Max. AC output current	9.5Aa.c.	12.7Aa.c.	15.9Aa.c	17.3Aa.c.
Rated voltage	230/400Va.c.,3L/N/PE			
Rated frequency	50/60Hz			
Switch time	<20ms			
Output THDv@Linear Load	<3%			
Efficiency				
Max. efficiency	97.8%	97.8%	98.0%	98.0%
EU efficiency	97.5%	97.5%	97.6%	97.6%
BAT charged Max. efficiency	98.0%	98.0%	98.0%	98.0%
BAT discharged Max. efficiency	97.5%	97.5%	97.6%	97.6%
MPPT efficiency	99.9%			
Protection				
Grid monitoring	Yes			
PV insulation resistance detection	Yes			
DC reverse polarity protection	Yes			
AC short-circuit protection	Yes			
AC over-current protection	Yes			
AC over-voltage protection	Yes			
Leakage current monitoring	Yes			
DC switch(solar)	Yes			
DC over current protection(Battery)	Yes			
Surge protection	DC Type II/AC Type III			
Anti-islanding protection	Yes			
General information				
Dimensions(W*H*D)	504x514x199mm			
Weight	33.0kg			
Topology	Transformerless			
Operating temperature range	-25~60°C			
Ingress protection	IP65			
Cooling method	Natural Convection			
Max.operating altitude	2000m			
Acoustic Noise	<40dB			
Display	LCD, APP			
Communication (BMS/Meter/Portal)	CAN/RS485/WiFi			
Safety/EMC standard	IEC62109-1, IEC62109-2, IEC/EN 61000-6			
On-grid standard	EN 50549, VDE-AR-N 4105, VFR, PSE 2018			

High performance ensured by Technology

- 2 MPP trackers
- Pure sine wave output; low THD
- 100% Unbalanced three-phase output
- Adjustable power factor

Reliable and durable

- IP65 rated; outdoor installation possible
- Fool-proof design; anti-reversed connection
- Anti short circuit; anti-Islanding
- Only 20ms-lag switch between on and off grid mode

User-friendly; suitable for home use

- Smart and auto switch of working mode
- APP monitor the whole ESS in real-time
- Auto cut off when problems occur



ALL-IN-ONE ESS

ComboX-3HS



IP65 Rated

Designed for both indoor and outdoor application



Integrated Design

Battery and inverter are pre-configured for best compatibility



Safe and Reliable

Brand new A-Grade LFP cell
Various automatic protection functions



Easy to Install

Plug-and-Play
save onsite installation time



Remote Control

Remote monitor of operation status
Alert pops up on APP if any problem occurs

TECH SPECS	ComboX-3HS-6kW	ComboX-3HS-8kW	ComboX-3HS-10kW	ComboX-3HS-12kW
PV Input				
Max.PV input power	9000W	12000W	15000W	15000W
Max. input voltage	1000Vd.c			
Rated input voltage	720Vd.c			
MPPT voltage range	200~950Vd.c.			
Max. input current	14/14Ad.c.	14/14Ad.c.	14/28Ad.c.	14/28Ad.c.
MPPT number	2			
No. of PV strings MPPT A/MPPT B	1/1	1/1	1/2	1/2
AC Output				
Rated Output Power	6000W	8000W	10000W	12000W
Max continuous output apparent power	6600VA	8800VA	11000VA	12000VA
Max. AC output current	9.5Aa.c.	12.7Aa.c.	15.9Aa.c	17.3Aa.c.
Rated AC voltage	230V/400Va.c.,3L+N+PE			
Rated grid frequency	50/60Hz			
Power factor	>0.99(0.8 leading-0.8 lagging)			
THDi@rated power	<3%			
EPS output				
Rated output power	6000W	8000W	10000W	12000W
Max. output apparent power	6600VA	8800VA	11000VA	12000VA
Max. AC output current	9.5Aa.c.	12.7Aa.c.	15.9Aa.c	17.3Aa.c.
Rated voltage	230/400Va.c.,3L/N/PE			
Rated frequency	50/60Hz			
Output THDu@Linear Load	<3%			
Battery				
Battery type	Lithium-ion			
Scalability	2~5 pcs in series			
Nominal Voltage	96Vd.c.			
Nominal Capacity	4800Wh			
Charging Temp. Range	0°C~50°C			
Discharging Temp. Range	-15°C~50°C			
Cycle Life	>6,000 ^[1]			
Protection				
Grid monitoring	Yes			
PV insulation resistance detection	Yes			
DC reverse polarity protection	Yes			
AC short-circuit protection	Yes			
AC over-current protection	Yes			
AC over-voltage protection	Yes			
Leakage current monitoring	Yes			
DC switch(solar)	Yes			
DC over voltage protection(Battery)	Yes			
Surge protection	DC Type II/AC Type III			
Anti-islanding protection	Yes			
General information				
Dimensions(W*H*D)	620*(979+N ^[2] *210)*400 mm			
Weight	83.8+N*56kg			
Topology	Transformerless			
Ingress protection	IP65			
Cooling Method	Natural Convection			
Max.operating altitude	2000m			
Acoustic Noise	<40dB			
Display	LCD, APP			
Communication	CAN/WiFi			
Safety/EMC standard	IEC62109-1, IEC62109-2, IEC/EN 61000-6, CE/UN38.3, VDE-AR-E 2510-50			
On-grid standard	EN 50549, VDE-AR-N 4105, VFR, PSE 2018			

[1] Test conditions: 0.2C Charging/Discharging, @25 C, 80% DOD. Depending on the inverter limit DoD is up to 95%.

[2] Number of batteries



YelonESS

Micro inverter

Tech Specs



- IP67/NEMA 6 protection rating
- 2 MPPTs; maximum output power can reach 1000W
- Easy installation, plug-and-play
- Support WiFi or Sub-1G communication
- Built-in protection relay
- Support high-power PV panels
- Fast shutdown of individual panel to ensure safety
- Low starting voltage; wide MPPT voltage range
- Peak efficiency 97%
- PV maximum input current can reach 16A



TECH SPECS	MV600-2S	MV800-2S	MV1000-2S
PV Input			
Recommended PV Module Power (STC) Range	240~410Wp	330~550Wp	390~680Wp
Max. input voltage	60V		
MPPT Voltage Range	16~60V		
Start-up Voltage	21V		
Max. input current	13A×2	15A×2	16A×2
Max.short circuit PV	25A×2	25A×2	25A×2
Number of MPPTs	2		
Number of inputs per MPPT	1		
AC Output			
Rated output power	600VA	800VA	1000VA
Rated output current	2.6A	3.5A	4.5A
Nominal output voltage/range	230/180-275V		
Nominal frequency	50/60Hz		
Power Factor	>0.99(0.8 leading-0.8 lagging)		
THDi	<3%		
Efficiency			
Peak efficiency	97%	97%	97%
Nominal MPPT efficiency	99.8%	99.8%	99.8%
General information			
Dimensions(W*H*D)	195×230×40mm		
Weight	3.3kg		
Self consumption(night)	<50mW		
Operating temperature range	-40~65°C(>45°C derating)		
Enclosure rating	Outdoor-IP67 (NEMA 6)		
Cooling Method	Natural Convection		
Communication	WiFi/BLE or Sub-1G		
Monitoring	YelonESS Cloud		