







# All-in-one ESS

## ComboX-3HS-6/8/10/12kW





-  100% three-phase unbalanced output.
-  Brand new A-grade LFP cells by world-renowned supplier.
-  IP65-rated, the all-in-one can be installed both indoors and outdoors.
-  Flexibly configure the all-in-one to suit users’ needs. The max capacity is 12kW/28.8 kWh.
-  Integrated design to ensure fast and fool-proof installation.
-  Remotely monitor and control the all-in-one by YelonESS APP.

Model	ComboX-3HS-6kW	ComboX-3HS-8kW	ComboX-3HS-10kW	ComboX-3HS-12kW
PV String Input Data				
Max. PV Input Power [W]	9000	12000	15000	15000
Max. PV Input Voltage [V]	1000			
Start-up Voltage [V]	250			
MPPT Voltage Range [V]	200~950			
Rated PV Input Voltage [V]	720			
Max. Operating PV Input Current [A]	14+14		14+28	
Max. Input Short-circuit Current [A]	17+17		17+34	
NO. of MPP Trackers/ NO. of Strings per MPP Tracker	2/1+1		2/1+2	
AC Input/Output Data				
Rated AC Input/Output Active Power [W]	12000/6000	16000/8000	16000/10000	16000/12000
Max. AC Input/Output Apparent Power [VA]	12000/6600	16000/8800	16000/11000	16000/12000
Rated AC Input/Output Current [A]	8.6/8.6	11.5/11.5	14.4/14.4	17.3/17.3
Max. AC Input/Output Current [A]	17.3/9.5	23.1/12.7	23.1/15.9	23.1/17.3
Peak Power [VA]	9000@60s	12000@60s	15000@60s	18000@60s
Power Factor Adjustment Range	0.8 leading~0.8 lagging			
Rated Input/Output Voltage/Range [V]	230/400, 0.9Un-1.1Un			
Rated Input/Output Grid Frequency/Range [Hz]	50/60			
Grid Connection Form	3L+N+PE			
Total Current Harmonic Distortion (THDi)	<3%			
DC Injection Current	<0.5% In			
Battery Data				
Battery type	Lithium-ion			
Scalability	2~5 pcs in series			
Nominal Voltage [V]	96			
Nominal Capacity [Wh]	4800			
Charge Temperature [°C]	0~+50			
Discharge Temperature [°C]	-15~+50			
Max. charge/discharge power [W]	6000/6000	8000/8000	10000/10000 (9360/9600@2 batteries)	12000/12000 (9360/9600@2 batteries)
Cycle Life	>6,000 (25°C ±2°C, 0.2C/ 0.2C, 80%DOD, 70%EOL)			
Equipment Protection				
Integrated	Grid monitoring, PV insulatin resistance detection, DC reverse polarity protection, AC short-circuit protection, AC over-current protection, AC over-voltage protection, Leakage current monitoring, DC switch(solar), DC overvoltage protection(Battery), Anti-islanding protection			
Surge Protection Level	Type II(DC), Type III(AC)			
Interface				
Communication Interface	CAN/RS485			
Monitor Mode	WIFI			
General Data				
Operating Temperature Range [°C]	-15~+50°C(charging mode:>40°C derating, other modes:>45°C derating)			
Permissible Ambient Humidity	0-95%(no condensing)			
Permissible Altitude [m]	2000			
Noise [dB]	<40			
IP Rating	IP65			
Inverter Topology	Transformerless			
Overvoltage Category	OVC III(AC), OVC II(DC)			
Cabinet Size [WxHxD mm]	620×(979+N×210)×400			
Weight [kg]	83.8+N×56			
Type of Cooling	Natural Convection			
Safety/EMC Standard	IEC62109-1, IEC62109-2, IEC/EN 61000-6, CE/UN38.3, VDE-AR-E 2510-50			
Grid Regulation	EN 50549, VDE-AR-N 4105, VFR, PSE 2018			