



POWER AND ENERGY STORAGE SYSTEMS CWS-STRG-BESS-3.42MWh

CW Storage is a solution utilizing Lithium Iron Phosphate technology, designed to store and manage energy generated from renewable energy sources such as solar, wind and hydrogen. BESS containers are a cost-effective and modular way of storing energy and can be easily transported and placed in various locations. With their ability to provide energy storage on a large scale, their flexibility and security features, BESS containers are an ideal solution for a sustainable future and to reduce dependence on fossil fuels.

- › **Advanced Battery Management System**
- › **Security and Protection Components**
- › **Liquid Cooling Technology**
- › **Over 6000 Number of Cycles (0.5C)**
- › **On-Grid, Off-Grid or Hybrid Working**
- › **Safety Lithium Iron Phosphate Battery Architecture**
- › **Advanced Thermal Management System**
- › **Easy and Fast Installation**



SYSTEM TECHNICAL SPECIFICATIONS

MODEL	CWS-STRG-BESS-3.42MWh
Total System Power [kW]	1700
Total System Capacity [kWh]	3420

PCS TECHNICAL SPECIFICATIONS

DC INPUT	
DC Voltage Range [V]	970~1700
Maximum DC Input Current [A]	1833
DC Voltage Ripple [%]	< 1%
DC Current Ripple [%]	< 3%
AC OUTPUT	
Nominal Output Power [kW]	1575
Maximum AC Power [kVA]	1650
Nominal Operating Voltage [V]	630
Operating Voltage Range [V]	567~690
Maximum AC Output Current [A]	1588
Nominal Operating Frequency [Hz]	50 / 60
Operating Frequency Range [Hz]	45~55 / 55~65
Nominal Power Factor	> 0.99
Adjustable Power Factor	0.9 (Leading) ~ 0.9 (Lagging)
AC Connection	Three Phase Three Wire
PHYSICAL SPECIFICATIONS	
Weight [kg]	1600
Dimension (WxHxD) [mm]	1200x2350x1400
Cooling Method	Forced Air Cooled
Maximum Working Altitude [m]	6000 (Derating> 3000)
Isolation Method	Transformer Less
Operating Temperature Range [°C]	-35 ~ +60 (Derating>45)
Relative Humidity [%]	0~95% (No Condensation)
Degree of Protection	IP65
Communication Interface	CAN / RS-485 / RJ45 / Optical Fiber Port
Communication Protocol	CAN / Modbus / IEC 61850 / IEC 60870-5-103 etc

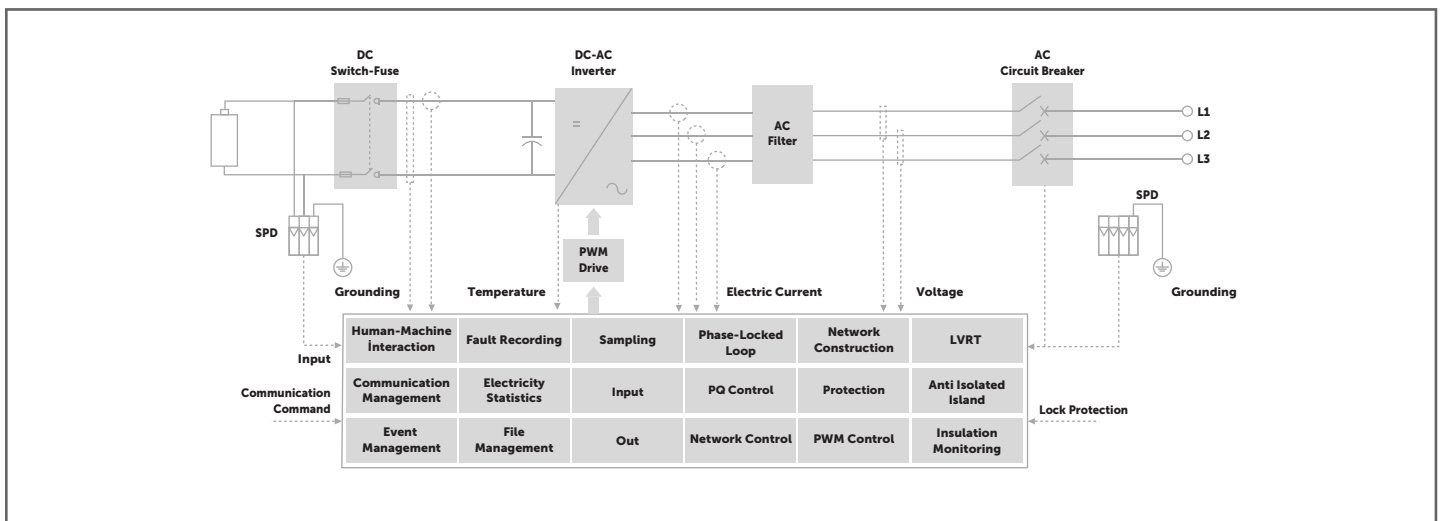
BATTERY TECHNICAL SPECIFICATIONS

BATTERY	
Battery Type	LFP
Cell Type	Prismatic (IFPP81175200-300Ah)
Dimension (WxDxH) [mm]	81.2x175.4x200.3
Cell Weight [kg]	5.998±0.3
The Energy Density [Wh/kg]	160
Single Cell [V/Ah]	3.2 / 300
Battery Pack [V/Ah]	140.8 / 300 (1P44S)
Battery Rack [V/Ah]	1267 / 300
The Rated Charge and Discharge Rate	0.5C
Life Cycles	≥6000
Working Temperature Range [°C]	-20 ~ +55
Storage Temperature Range [°C]	-30 ~ +60
Altitude [m]	<2000
Size (DxGxY) [mm]	6058x2438x2896
Weight [kg]	26000
Balance	Passive or Active

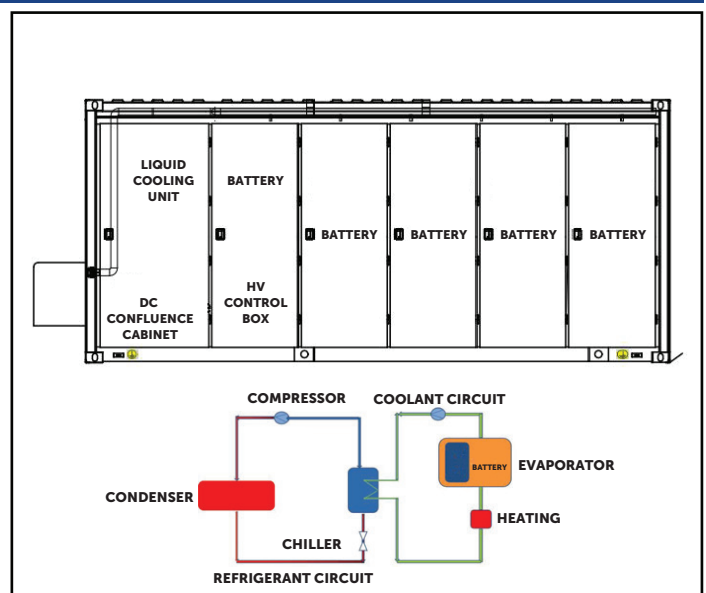
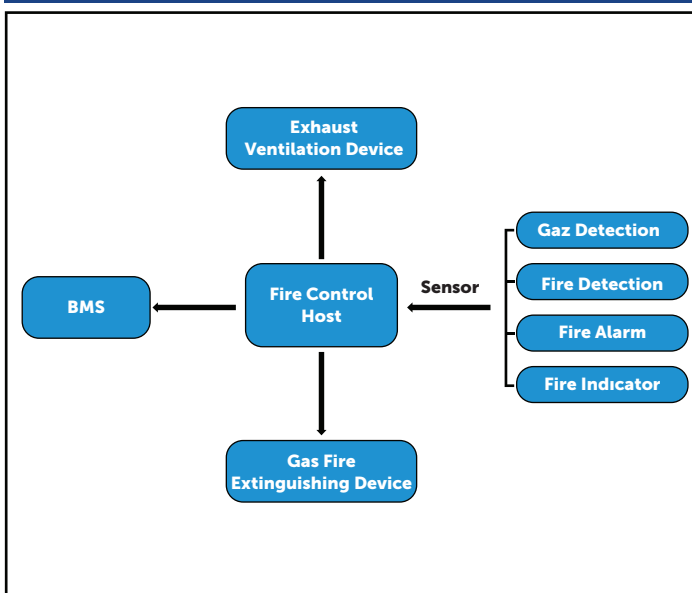
* CW Storage reserves the right to change the specification of product without prior notice.

* The charge, discharge, capacity, and cycle values stated above are valid at 25 °C and non-condensing environment.

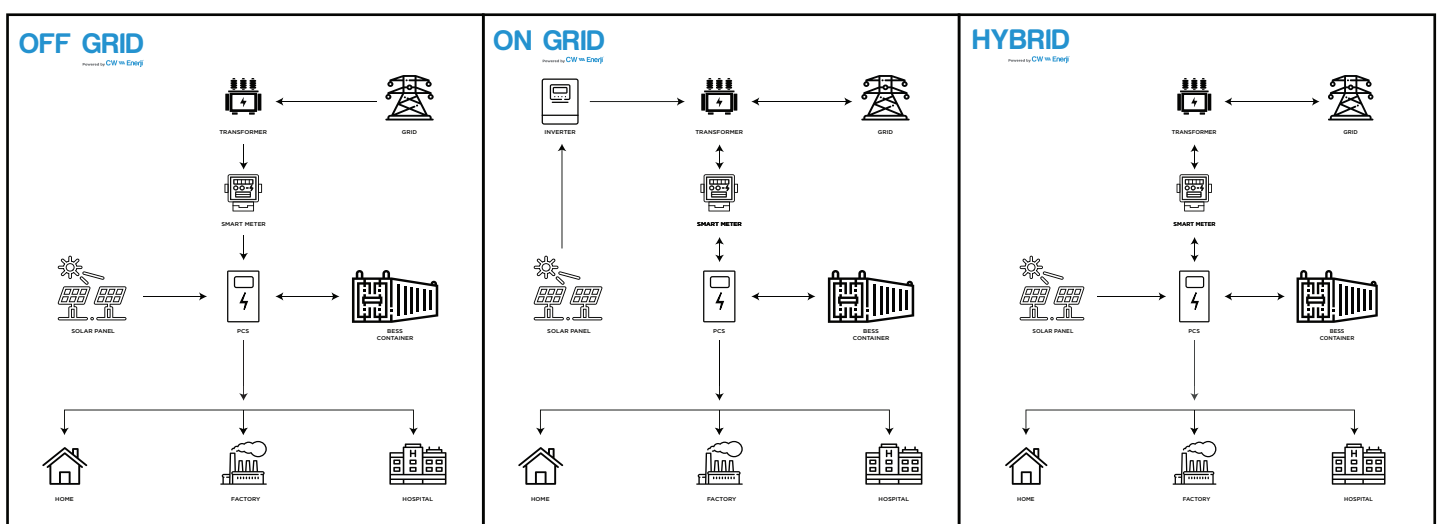
PCS SYSTEM DIAGRAM



FIRE FIGHTING & THERMAL MANAGEMENT SYSTEM



WORKING SCENARIOS



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