

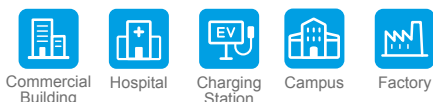


ENERGY STORAGE SOLUTION

Power Conditioning System / PCS100

Features

- Power capacity: 100 kW; AC voltage: 400 Vac
- High efficiency: Peak 97.2%
- High power density: 146W/l, 322 W/kg
- Quick power transfer time (<40 ms)
- IP55 for outdoor application
- Scalable up to 400kW in parallel configuration
- Black start capability for power backup

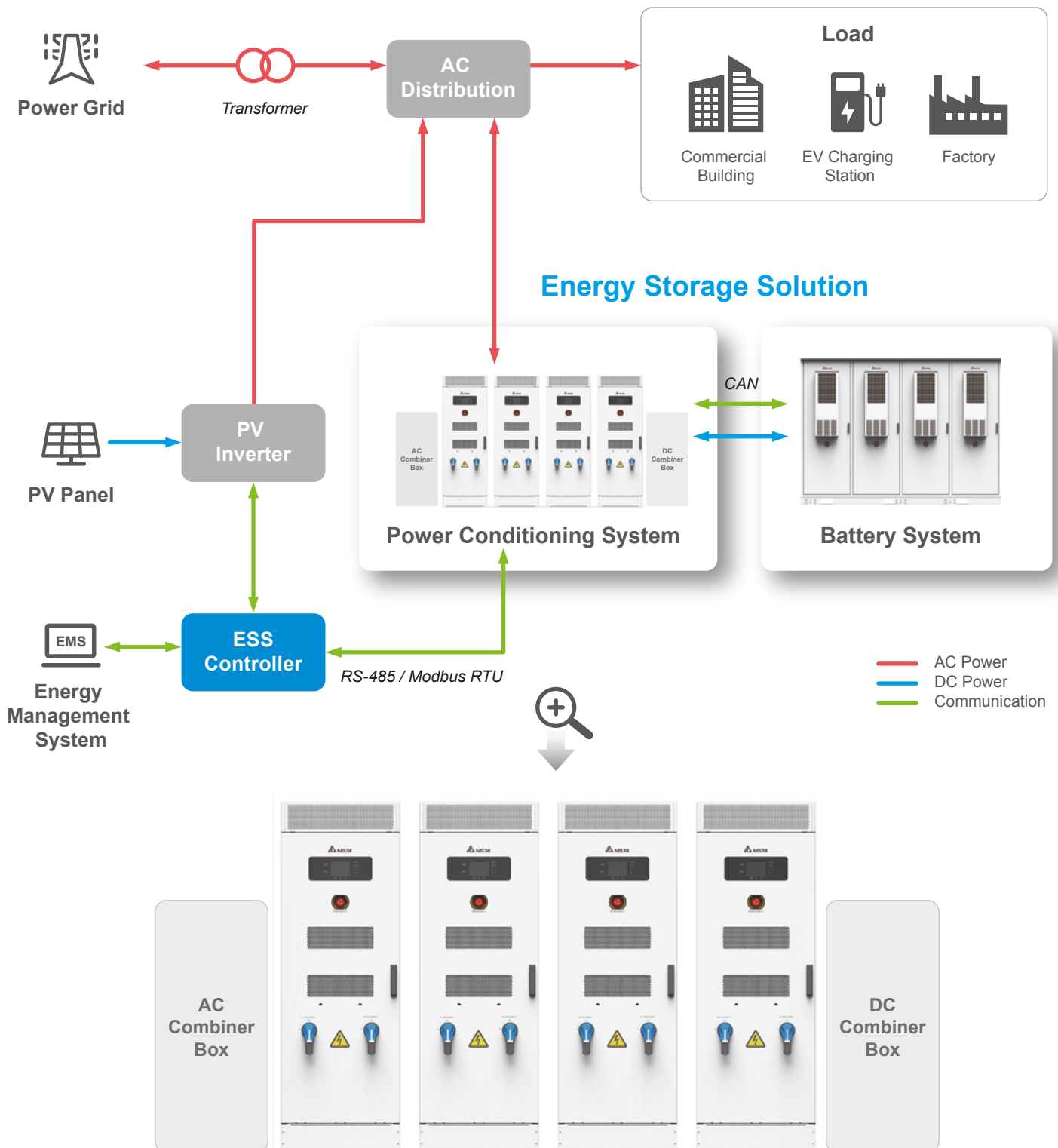


The Leading Power for Energy Storage

Delta Power Conditioning System (PCS) is a bi-directional energy storage inverter for grid-tied and off-grid applications including power backup, peak shaving, load shifting, PV self-consumption, PV smoothing, etc. It demonstrates industry leading power performance with high power efficiency and low stand-by power loss. It is compact for space saving and offers scalability for various system configurations and integration with mainstream branded battery systems.



System Architecture



Applications

- Real and reactive power compensation to improve power quality
- Standalone operation for power backup
- Demand charge management / peak shaving
- Load shifting for time-of-use savings

Specifications

Model Name	PCS100
AC Connection	
Rated Grid Voltage	400 Vac, 3P3W
Grid Voltage Range	320 ~ 440 Vac (VDE-AR-N4105) 312 ~ 450 Vac (AS/NZS 4777.2)
Rated Grid Frequency	50 Hz
Frequency Range	47.5 ~ 51.5 Hz (VDE-AR-N4105) 47 ~ 52 Hz (AS/NZS 4777.2, AS) 45 ~ 52 Hz (AS/NZS 4777.2, NZS)
Rated AC Power / Current	100 kVA / 144.3 A
Max. Continuous AC Current	160.4 Arms
Current THD	< 3%
Power Factor	-1 to 1, continuously adjustable
DC Connection	
DC Voltage Range	750 ~ 1,000 Vdc
Rated DC Voltage	900 Vdc
Rated Discharge / Charge Power	103 kW / 97 kW
Max. Discharge / Charge Current	137.3 A / 129.3 A
Standalone Operation	
Rated Output Voltage	400 Vac, 3P3W
Rated Output Power	100 kVA / 100 kW @ linear & non-linear load
Rated Output Current	144.3 A
Output Voltage THD	< 3% @ linear load < 5% @ non-linear load
Performance	
Peak Efficiency	97.2%
Standby Loss	<25W @ sleep mode
Environment	
Max. Altitude	3,000 m, de-rating above 2,000 m
Operating Temperature	-25 ~ 60 °C, de-rating @ > 50°C
Humidity	0 to 95% RH, non-condensing
Acoustic Noise	< 72 dBA @ 1 m @ rated condition
Cooling	Forced air with speed control
Enclosure Rating	IP55
General	
User Interface	4.9" LCD screen
Emergency Stop	EPO button & remote control
Communication	RS-485 / Modbus RTU, CAN
Dimension (W x H x D)	600 x 1766 x 800 mm
Net Weight	310 kg
Certificate	Safety: IEC/EN 62477-1, AS 62040.1.1 Grid Code: VDE-AR-N4105, AS/NZS 4777.2 EMC: IEC/EN 61000-6-2, IEC/EN 61000-6-4 CE, RCM
Applicable Battery Chemistry	Lithium-ion, lead-acid, flow battery

* Specifications are subject to change without prior notice



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