

Energy Storage Solution

Power Conditioning System / PCS100HV

- 100 kW power capacity with 400 V_{AC}
- Scalable system configuration and integration with mainstream battery systems
- Black start capability for power backup and microgrid applications











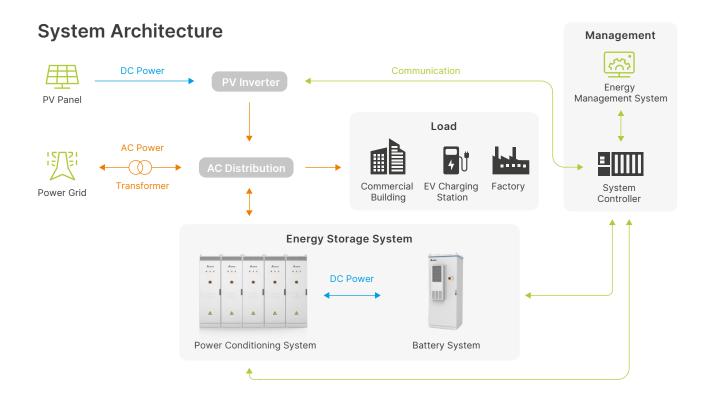


The Leading Power for Energy Storage

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 and 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.





Features



Efficient and Precise Power Control

Power capacity: 100 kWAC voltage: 400 Vac

• Peak efficiency: 98%

High power density: 167 W/l, 435 W/kg
Quick power response time: <20 ms



Flexible System Configuration

- Scalable with multiple units in a configuration
- Support 3 phase 4 wire load without transformer



Designed for Energy Storage Applications

- Real / reactive power compensation to improve power quality
- Peak shaving / demand charge management
- Load shifting for time-of-use savings
- Black start capability for power backup and microgrid applications
- Both grid-tied mode and power backup mode operation



Product at a Glance





Specifications

400 Vac (3P,N,PE) or (3P,PE)
400 Vac (3P,N,PE) or (3P,PE)
352 ~ 440 Vac
50 Hz
45~55 Hz
100 kVA / kW
145 A
167 A
110 kVA / kW
< 3%
<0.5% rated current
-1 to 1, continuously adjustable
650 ~ 1,350 Vdc for 3P3W 1) / 700 ~ 1,350 Vdc for 3P4W in Off-grid mode 1), 2)
650V
102 kW / 98 kW
157A / 151A
400Vac (3P,N,PE)
100 kVA / kW with linear load ; 80 kVA with RCD load (lpk≤240A) 3)
145 A
< 3% @ rated linear load
98%
<25W @ cold mode
4,000 m, de-rating >2000m
-30 °C to +60 °C, de-rating >45°C
0 to 95% RH, non-condensing
< 70 dB @ 1 m @25°C @ rated condition, max. 75 dB
Forced air with speed control
IP55
LED, EPO, Ethernet
Ethernet/Modbus TCP
600 × 2000 × 500 mm
230 kg
Safety: IEC 62477-1, EN62477-1 Grid Code: AS/NZS 4777.2:2020 EMC: IEC/EN 61000-6-2, IEC/EN 61000-6-4 Vibration: IEC 60068-2-6:2007
DC reverse protection/OVP/UVP/OCP/ DC insulation detection
CE, RCM
Lithium-ion, lead-acid, flow battery

- 1) Output power will be de-rating, if DC voltage is higher than 1250V 2) The minimum DC voltage should be larger than 750V, if the load is 100% unbalanced load
- 3) Transformer or motor load or rectifier load, which has large inrush current (lpk>240A) is not included

Delta Electronics Europe

Zandsteen 15, 2132 MZ Hoofddorp, The Netherlands TEL: +31 20 655-0900 / FAX: +31 20 655-0999 PCS@deltaww.com

Delta Electronics Australia

20-21/45 Normanby Road Notting Hill, VIC 3168, Australia TEL: +61-3-9543-3720 / FAX: +61-3-9544-0606 PCS@deltaww.com



^{*} Specifications are subject to change without prior notice