

Energy Storage Solutions

Power Conditioning System / PCS100HV

- 100 kW power conversion capacity with 400 Vac
- Scalable system configuration, compatible with various battery types and models
- Black start capability for power backup and microgrid applications







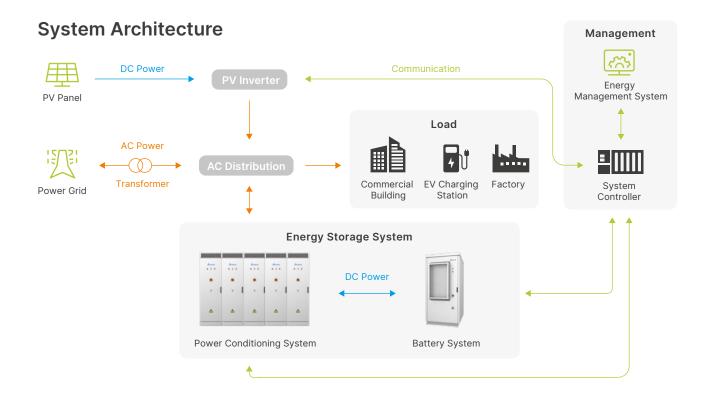




Powerful Conversion for Energy Storage

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, and PV smoothing. It demonstrates industrial-leading power performance with high power efficiency and low stand-by power losses. Its compact form factor saves space and offers scalability for various system configurations and its compatibility features enables smooth integration with multiple battery types and models.





Features



Efficient and Precise Power Control

- Power capacity: 100 kW
- AC voltage: 400 Vac
- Peak efficiency: 98%
- High power density: 167 W/I, 435 W/kg
- Quick power response time : < 20 ms



Flexible System Configuration

- Scalable configuration with multiple units
- Support for 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









Specifications

AC connectionRated Grid Voltage400 Vac (3P-N-PE or 3P-PE)Grid Voltage Range310 to 450 VacRated AC Active Power100 KVA / KWRated AC Active Power100 KVA / KWRated AC Current145 AMax. Continuous AC Current167 AMaximum AC Apparent Power110 KVA / KWCurrent T-H0< 3%DC Current Injection< 0.5% of rated currentPower Factor-1 to 1, continuously adjustableDC Current T-H0< 5%DC Current T-H0< 5% of rated currentPower Factor-1 to 1, continuously adjustableDC ConnectionDC ConnectionMax. Discharge / Charge Power102 KW / 98 KWMax. Discharge / Charge Power102 KW / 98 KWStandslone Operation100 VA/ (KW with linear load; 30 KVA with non-linear loads (lpk ≤ 240 A) ³¹ Rated Output Voltage ThO< 3% @ rated linear load; 30 KVA with non-linear loads (lpk ≤ 240 A) ³¹ Rated Output Voltage ThO< 3% @ rated linear load; 30 KVA with non-linear loads (lpk ≤ 240 A) ³¹ Rated Output Voltage ThO< 3% @ rated linear loadPerformanceWaximum Altitude4,000 m, de-rating > 4,90 mOperating Temperature-90 °C to -60 °C, de-rating > 45 °CNaximum Altitude4,000 m, de-rating > 4,90 mOperating Temperature-90 °C to -60 °C, de-rating > 45 °CMaximum Altitude4,000 m, de-rating > 4,90 °COperating Temperature-90 °C to -60 °C, de-rating > 45 °CMaximum Altitude4,000 m, de-rating > 45	Model Name	PCS100HV
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CommunicationEthernet/Modbus TCPDimensions (W x H x D)600 × 2000 × 500 mmNet Weight230 kgCertificationsSafety: IEC 62477-1, EN 62477-1 Grid: AS/NZS 4777.2:2020, EN 50549-1:2019, G99, VDE-AR-N 4105:2018 EMC: IEC/EN 61000-6-2, IEC/EN 61000-6-4, Vibration: IEC 60068-2-6:2007ProtectionDC reverse protection/OVP/UVP/OCP/DC insulation detectionProduct ConformityCE, RCM, UKCA	General	
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Product Conformity CE, RCM, UKCA	-	Safety: IEC 62477-1, EN 62477-1 Grid: AS/NZS 4777.2:2020, EN 50549-1:2019, G99, VDE-AR-N 4105:2018 EMC: IEC/EN 61000-6-2, IEC/EN 61000-6-4
Product Conformity CE, RCM, UKCA	Protection	DC reverse protection/OVP/UVP/OCP/DC insulation detection
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	· · · · ·	Lithium-ion, lead-acid, flow battery

1) Output power will be de-rated if DC voltage is higher than 1250 V

2) The minimum DC voltage should be larger than 750 V, if the load is 100% unbalanced

3) Transformer, motor or rectifier loads with large inrush currents (Ipk > 240 A) are not supported

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All information and specifications are subjected to change without prior notice.