1MW PV Power Container

Product Introduction

- **Superior integration and turn-key design(일체형디자인)**
  1MW integrated PV turn-key design system with all equipments in one container, including PV inverter, communication cabinet (option), and auxiliary power supply unit
- **Professional Integration**(통합형 솔루션)
  Container solution for outdoor use with professional factory integration and differentiated design to meet special customers' needs
- **High environmental adaptability and applicability**
  (환경여건의 폭넓은 적용 신뢰성)
  Standard 10 feet container design. IP54 protection degree for outdoor use in extreme operational environments. Suitable for locations subject to strong winds, blown sand and/or high altitude
- **Remote operation through smart monitoring system(option)**
  (스마트모니터링을 통한 원격운전성)
  Highly automated and remote controlled integrated SCADA monitoring system compatible with smart grids
- **Simple engineering for fast-track station installation**
  (최적화된 설치의 용이성)
  Only DC, AC and communication connections are required after container allocation; No need to build a dedicated shelter or house
- **High level safety and reliability**(높은 안정 신뢰성)
  Integrated intelligent access control system and smoke alarm as well as various kinds of protection measures against fire, rain, dust and small animals ensure the safety of system

Utility Interactive

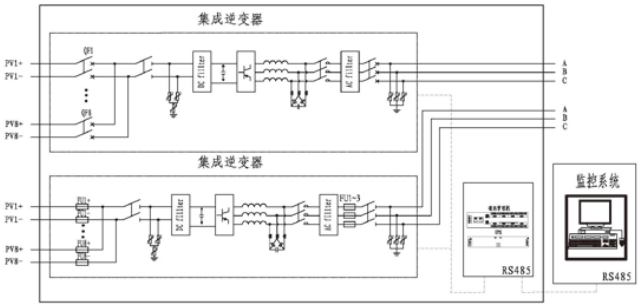
- Active power continuously adjustable
- Reactive power control with power factor from-0.9 to +0.9
  Give reactive power compensation to the grid at night according to directive
  Comprehensive grid management functions including complete dynamic grid support

Adaptable

- Thanks to their steel monoblocks structure they can be easily transported by sea or road to any place, guaranteeing the maximum air-tightness and durability
- Diverse installation methods, including mounting on steel bracketor concrete slab
- The AC output of the power container can match different types ofdual secondary winding transformers with various primary windingmedium voltage rating
- Convenient access for repair and maintenance to minimize operational cost

High Reliability

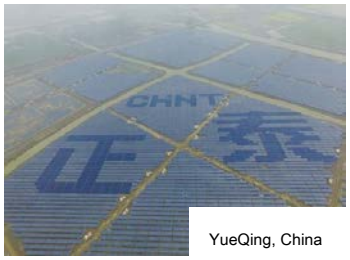
- Turn-key solution, Integrated design for ventilation, anti-corrosion, anti-low temperature and other application requirement
- Smoke detector, intelligent access control system
- Automatic control of temperature and humidity ventilation system



Suntronic

Model Name	CPS PSW1M
DC Input(입력단)	
Nominal DC Input Power(정격입력전력)	1030kW
Max. DC Input Voltage(최대입력전압)	1000Vdc
Operating DC Input Voltage Range(작동 DC 입력전압범위)	575-940Vdc
Start-up DC Input Voltage(동작전압)	595Vdc
Number of MPP Tracker(MPPT 개수)	1
MPPT Voltage Range (MPPT 전압범위)	585-850Vdc
Max. Input Current(최대전력)	2000A
Number of DC Inputs(Max.)(최대 DC 입력단자개수)	15
DC Disconnection Type (절연상태)	Breaker
PV Array Configuration(PV 어레이 구성)	Floating/Negative grounded
AC Output(출력단)	
Rated AC Output Power(정격출력)	1000kW
Max. AC Output Power(최대출력)	1100kW
Rated Output Voltage(정격전압)	380Vac
Output Voltage Range*(출력전압범위)	-15%,+10%
Grid Connection Type(계통연계형형태)	3Φ/PE
Max AC Output Current(최대전력)	1520A
Rated Output Frequency(정격주파수)	50Hz/60Hz
Output Frequency Range*(최대주파수범위)	47-51.5Hz/57-62Hz
Power Factor(역률)	>0.99 (±0.9 adjustable)
Current THD(전류왜율)	<3%
AC Disconnection Type(절연형태)	Breaker
System(시스템)	
Topology(방식)	Transformerless
Max. Efficiency(최대효율)	99.0%
Euro Efficiency(유로효율)	98.5%
Stand-by / Night Consumption(대기전력)	<200W
Environment(환경데이터)	
Protection Degree(보호등급)	IP54
Cooling(냉각방식)	Forced air cooling
Operating Temperature Range(운전온도범위)	-25°C to +60°C (derating from 50°C) -40°C to +60°C (optional heater)
Operating Humidity(습도)	0-95%, non-condensing
Operating Altitude(고도)	4000m (derating from 3000m)
Display and Communication(디스플레이 및 통신)	
Display(디스플레이)	Touchscreen
Communication(통신)	Standard: RS485, Ethernet
Mechanical Data(구조데이터)	
Dimensions (WxHxD) (mm)(치수)	2991x2591x2438
Weight (t)(무게)	3.6
Safety(안전)	
Safety and EMC Standard(안전 및 EMC 표준)	LVD: 2006/95/EC, IEC/EN 62109-1: 2010, IEC/EN 62109-2: 2011. EMC: 2004/108/EC; IEC/EN61000-6-2: 2005, IEC/EN61000-6-4: 2007.
Grid Standard(그리드 표준)	IEC61727: 2004, GB/T19964-2012, NB/T32004-2013

* The “Output Voltage Range” and “Output Frequency Range” may differ according to specific grid standards.
* “출력전압범위”와 “출력주파수 범위”는 특정된 계통형태에 따라 변동될 수 있습니다.

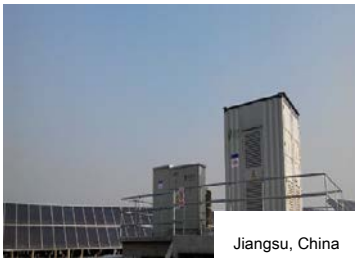


YueQing, China

150MW

Quzhou, China

Scale :200MW



Jiangsu, China

Scale :100MW

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