

1MW/1.26MW PV Power Container

Product Introduction

Superior integration and turn-key design

1MW/1.26MW integrated PV turn-key design system with all equipments in one container, including PV inverter, DC Distribution cabinet (option), communication cabinet (option), and auxiliary power supply unit

Professional Integration

Container solution for outdoor use with professional factory integration and differentiated design to meet special customers' needs

High environmental adaptability and applicability

Standard 20"HQ 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)

Highly automated and remote controlled integrated SCADA monitoring system compatible with smart grids

Simple engineering for fast-track station installation

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

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

LVRT (Zero-voltage Ride-through)

Active power continuously adjustable

Reactive power control with power factor from 0.8 lagging to 0.8 leading

Give reactive power compensation to the grid at night according to directive

Comprehensive grid management functions including complete dynamic grid support (BDEW compliant)



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 bracket or concrete slab

The AC output of the power container can match different types of dual secondary winding transformers with various primary winding medium voltage rating

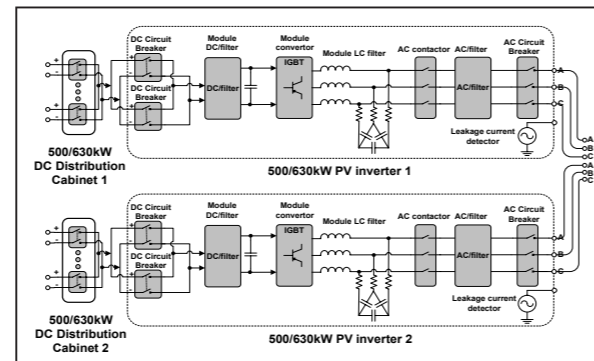
Convenient access for repair and maintenance to minimize operational cost

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



Chumphon Thailand PV Plant Inverter: PSW1M Scale: 3MW Commissioned: June, 2014	Wuwei PV Power Station Inverter: PSW1M Scale: 50MW Commissioned: Dec, 2013
Datong PV Power Station Inverter: PSW1.26M Scale: 30MW Commissioned: Dec, 2013	Jinchang PV Power Station Inverter: PSW1M Scale: 51MW Commissioned: Dec, 2013

Model Name	CPS PSW1M	CPS PSW1.26M
DC Input		
Nominal DC Input Power	1024KW	1300kW
Max. DC Input Power	1130kW	1300kW
Max. DC Input Voltage	1000Vdc	1000Vdc
Operating DC Input Voltage Range	450-940Vdc	500-940Vdc
Start-up DC Input Voltage / Power	470V/7kW	520V/7kW
Nominal DC Input Voltage	600V	600V
MPPT Voltage Range	450-820Vdc@270Vac 500-820Vdc@315Vac	500-820Vdc
Number of MPP Tracker	2x1	2x1
Number of DC Inputs	2x8(Customizable)	2x8 (Customizable)
Max. Input Current	2x1200A	2x1300A
DC Disconnection Type	Integrated Breaker	Integrated Breaker
PV Array Configuration	Floating	Floating
AC Output		
Rated AC Output Power	1000kW	1260kW
Max. AC Output Power	1100kW	1260kW
Rated Output Voltage	270Vac/315Vac	320Vac
Output Voltage Range*	230-310Vac@270Vac 267-363Vac@315Vac	272-368Vac
Grid Connection Type	3Φ/PE	3Φ/PE
Max AC Output Current	2352A@270Vac 2016A@315Vac	2274A
Rated Output Frequency	50Hz/60Hz	50Hz/60Hz
Output Frequency Range*	47-51.5Hz/57-62Hz	47-51.5Hz/57-62Hz
Power Factor	>0.99 (±0.8 adjustable)	>0.99 (±0.8 adjustable)
Current THD	<3%	<3%
AC Disconnection Type	Integrated Breaker	Integrated Breaker
System		
Topology	Transformerless	Transformerless
Max. Efficiency	98.5%	98.5%
Euro Efficiency	98.3%	98.3%
Stand-by / Night Consumption	<200W	<200W
Environment		
Protection Degree	IP54	IP54
Cooling	Forced air cooling	Forced air cooling
Operating Temperature Range	-25°C to +60°C (derating from 50°C) -40°C to +60°C (optional heater)	-25°C to +60°C (derating from 50°C) -40°C to +60°C (optional heater)
Operating Humidity	0-95%, non-condensing	0-95%, non-condensing
Operating Altitude	4000m (315V output, derating from 3000m)	4000m (315V output, derating from 3000m)
Display and Communication		
Display	LCD+LED	LCD+LED
Communication	Standard: RS485, Ethernet	Standard: RS485, Ethernet
Mechanical Data		
Dimensions (WxHxD) (mm)	6058x2896x2438	6058x2896x2438
Weight (t)	9	9
Safety		
Safety and EMC Standard	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	IEC61727: 2004, CNCA/CTS 0004-2009A, GB/T19964-2012, BDEW	

* The "Output Voltage Range" and "Output Frequency Range" may differ according to specific grid standards.