

MODEL: JPST-20-10

Hybrid Power Station



Design Standards

Our JPST models form a new range of secure integrated Jubilee hybrid power stations. The unit comprises of Diesel Generator, PV Solar Panels, Hybrid Solar Inverter, Battery Energy Storage System and Wind Turbines – all in one secure unit. The JPST range has been developed to reduce the dependence on mains power, thus lowering consumption cost.

Benefits

- Integrated installation, convenient storage, and transportation
- High return on investment
- Simple operation and easy maintenance
- Power and capacity can be expanded, meeting different user needs
- Customer customisation suitable for various scenarios

General Specification

Model	JPST20-10
Rated Output Power	10 kW (Generator), 10 kW (Battery), 2.5 kW (Solar), 0.8 kW (Wind Turbine)
Rated Output Voltage	240V @ 50Hz / 1 Phase
Fuel Tank Capacity	100L Twin Skinned Tank
Battery Storage Capacity	10 kWh
Max. Battery Storage	15 kWh

General Specification (Continued)

Expand Dimension (L x W x H)	TBA
Loading Dimension (L x W x H)	TBA
Weight	2150 kgs
Operating Temperature Range	-15 ~ 50°C

SOLAR PANEL

MAX. POWER **2500_W**
 HIGHLY EFFICIENT
 UP TO **22%**



DIESEL GENERATOR

RATED POWER: 10
kW
 LOW CONSUMPTION
 DOWN TO **3.7**
L/H



INTELLIGENT INVERTER

ONE PIECE FOR SOLAR,
 BATTERY & DIESEL
 GENERATORS



Fits the practical application and guaranteed by high-quality manufacturing /technology.

Diesel Generator Set	
Prime Power	10 kW/10kVA
Engine & Alternator	PERKINS & Jubilee Energy
Fuel Consumption	3.7 L/h@100% load
Time for Charger	1 hours
Full Tank Output Power	270 kWh (Max.)
Fuel Type	Diesel
Controller	DSE7320MKII
Base Functions	Auto Start-up / Alarm / Auto Stop / Emergency Stop / Load Management
Solar Panel	
Maximum Power	500W per piece
Power Tolerance	0~+5W
Max-Power Voltage (Vm)	38.5Vdc
Max-Power Current (Im)	8.45A
Quantity	5pcs.
Energy Storage Battery	
Type	LFP(LiFePO4)
Rated Capacity	5 kWh per piece
Rated Voltage	51.2Vdc
Discharge Depth	90%
Charger/Discharger Current	97.7 A (1.0C)
Cycle limitation	2000 cycles
System Capacity	10 kWh
System MAX. Capacity	15 kWh
Integrated Solar Power Inverter System	
Inverter Type	Hybrid Inverter with solar charger and DRM - Output power 5KVA
P.F.	-1.0~ + 1.0
Qty.	2pcs
Voltage Range of BESS	220V~240V
Charge/discharge Current of BESS	≤120A
PV Controller	MPPT*2
Voltage Range of PV	150V~425V
Current Range of PV	≤13A

Wind Turbine	
Rated power	400W
Rated Voltage	48VDC
Start-up wind speed	2m/s
Rated wind speed	10m/s
Survival wind speed	45m/s
Wind wheel diameter	1.1m
Blade material	Aluminium Alloy
Generator type	PMG
Controller system	Electromagnetic
Speed regulation	Automatic Wind Angle
Quantity	2pcs