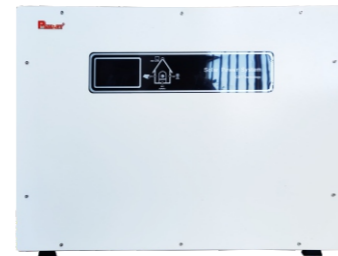


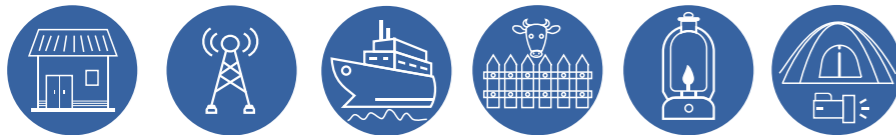
Titan Series 1Phase IGBT Solar Power Inverter

Features

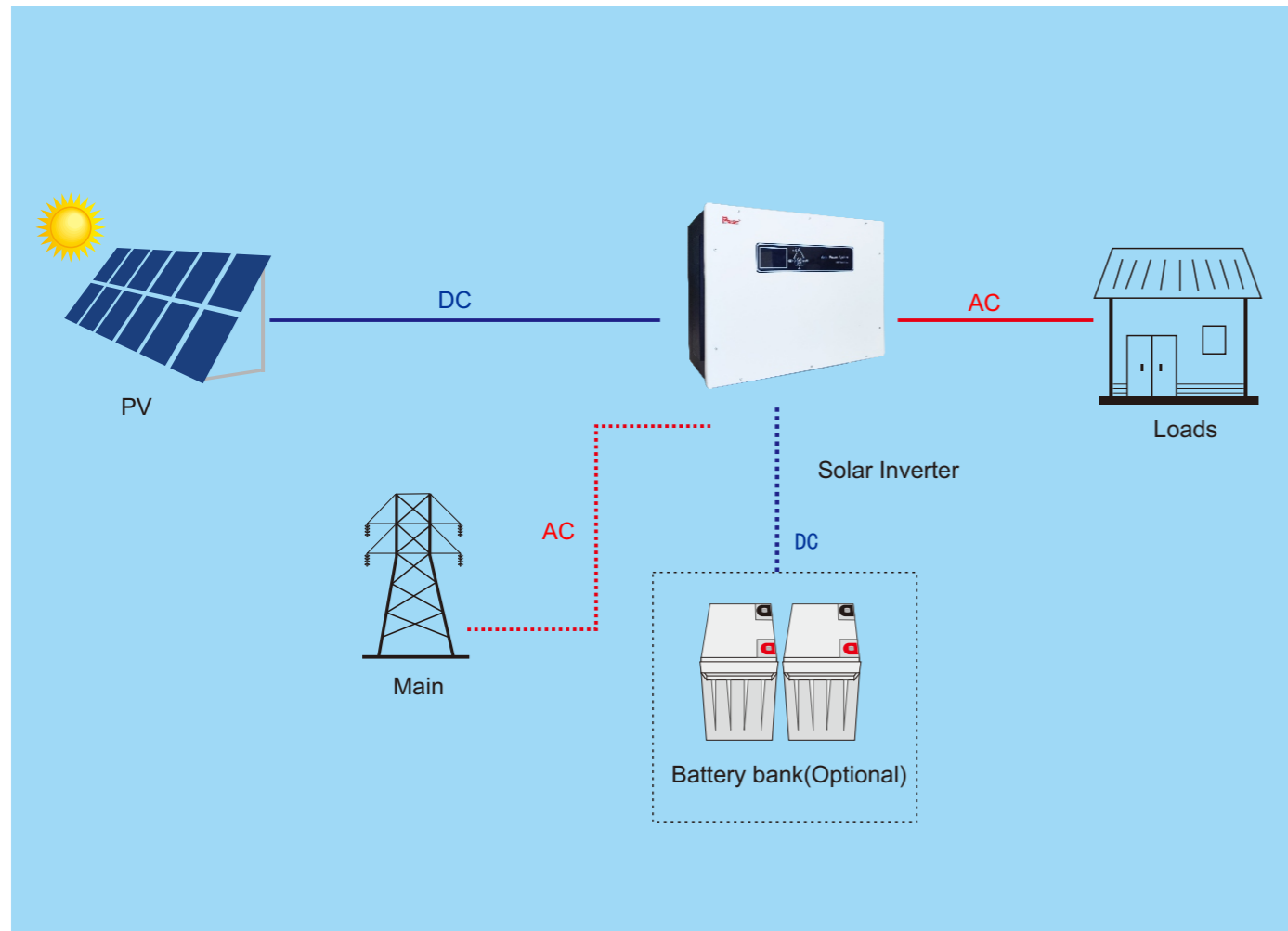
- Able to work without battery
- IGBT (Germany Infineon) technology for both inverter and MPPT
- IP64 protection for PCB boards (No more dusts and insects)
- Colourful LCD touch screen
- Transfer time :1ms(No break) SCR ATS Switching
- Lithium batteries compatible with Rs485 interface
- LVD / HVD and battery cut-off settings are available
- Solar can support the loads without going through batteries
- AC / PV charging currents and voltages settings are available
- Transformer based rugged design with 3 times peak power (inductive loads)
- Online 4G/WIFI monitoring (optional)



Application



Application diagram



Technical Parameters

Inverter with MPPT	PT8K	PT10K	PT12K
Rated power	8000W	10000W	12000W
Battery voltage	48VDC		
Size (L*W*H)	750 * 580 * 310mm		
Package size (L*W*H)	850 * 680 * 410mm		
N.W. (KG)	100	110	120
G.W. (KG)	110	130	140

AC Input

Phase	L+N+G
AC input range	110V: 85-138VAC ; 220V: 170-275VAC
Input frequency	45Hz~55Hz or 55Hz~65Hz

AC Output

Output voltage	Inverter mode: 110VAC/220V ± 5% ; AC mode: 110VAC/220VAC ± 10%;
Frequency (AC mode)	Auto-detect
Frequency (INV mode)	50Hz/ 60Hz ± 1%
Over load capacity	AC mode: (100%~110% with 10mins ; 110%~130% with 1min ; >130% with 1s) INV mode: (100%~110% with 30s ; 110%~130% with 10s ; >130% with 1s)
Crest ratio	3:1max
Transfer time	<1ms (Typical loads)
Waveform	Pure sine wave
Efficiency	>85% (Max with 91%)
Protections	Battery over-voltage protection, battery low-voltage protection, overload protection, short circuit protection, over-temperature protection, etc.

Built in MPPT (IGBT based)

Charging current	150A	180A	200A
Battery voltage	48VDC		
PV input voltage	65-250VOC		
Max solar power	8000W	9000W	10000W
Cooling method	Fans cooling		

Environmental conditions

Operating temp	0°C-40°C (Battery life decreases at ambient temperatures above 25 degrees Celsius)
Operation humidity	<95% (without condensing)
Operating altitude	<1000m (with increase of 100m, it will reduce output of 1%) max5000m
Noise	<58dB (distance to machine 1meter)

Management

Display	LED+Touch screen
Communication	RS485(Optional)

*The specifications, dimensions and materials are subject to change without further notice.