

TITTAN PLUS

6 kVA ~ 10 kVA

PF0.9



Features

- High frequency on-line double conversion technology
- DSP (Digital signal processors) technology
- Active power factor correction (APFC), input power factor up to 0.99
- Output power factor 0.9
- Wide input voltage range (110 V ~ 300 Vac) and frequency range (40 ~ 70 Hz)
- Auto sensing frequency
- 50/60Hz frequency conversion
- Cold start
- Rear ventilation design and variable speed fan
- Effective software and hardware protection
- Flexible battery configuration (Settable 14 - 20 pcs batteries)
- Quick and stable charging, 90% capacity restored in 4 h (standard model UPS)
- Linear derating in low voltage input reducing battery discharging times
- Settable delayed start when power is restored
- Advanced battery management (ABM)
- Multiple functions settable via LCD: output voltage, battery quantity, EOD, EPO, ECO mode, frequency conversion mode and parallel enable
- Powerful background software for parameters configuration, function settings and online updating

- Multi-platform communications: RS232 (standard), USB / RS485 / SNMP / dry contacts (optional)

Available Options

- Optional USB, RS485 card, AS400 dry contacts, SNMP card, SMS alarms, maintenance bypass, EPO function, parallel function, battery temperature compensation and EMD environmental sensors

Rear Panel

1. Input and output terminal
2. Input breaker
3. Battery breaker
4. Maintenance bypass (optional)
5. Inbuilt battery
6. Fan
7. External battery connector
8. Intelligent slot (SNMP / AS400 / RS485 optional)
9. USB (optional)
10. RS232
11. EPO
12. Parallel card (optional)
13. Battery temperature compensation (optional)



Long time model

Standard model

Specifications

MODEL	TITTAN+ 6S	TITTAN+ 6H	TITTAN+ 10S	TITTAN+ 10H
Capacity	6 kVA / 5400 W		10 kVA / 9000 W	
INPUT				
Rated voltage	208 V / 220 V / 230 V / 240 Vac			
Voltage range	110 ~ 160 Vac (linear derating between 50% and 100% load); 160 ~ 280 Vac (no derating); 280 ~ 300 Vac (derating 50%)			
Rated frequency	50 / 60 Hz (auto-sense)			
Frequency range	40 ~ 70 Hz			
Power factor	≥ 0.99			
Total harmonic distortion (THDI)	≤ 5%			
Bypass voltage range	- 40% ~ + 15% (settable)			
OUTPUT				
Voltage	208 V / 220 V / 230 V / 240 Vac (settable)			
Voltage regulation	± 1%			
Frequency	45 ~ 55 Hz or 55 ~ 65 Hz (synchronized range); 50 / 60 Hz ± 0.1 Hz (battery mode)			
Waveform	Pure sine wave			
Crest factor	3:1			
Total harmonic distortion (THDV)	≤ 2% (linear load); ≤ 5% (non-linear load)			
Transfer time	Mains mode to battery mode: 0 ms; Inverter mode to bypass mode: 0 ms			
Inverter overload capability	102% ~ 125%: Transfer to bypass in 10 min; 125% ~ 150%: Transfer to bypass in 1 min; > 150%: Transfer to bypass in 0.5 s			
Bypass overload capability	102% ~ 125%: Shut down in 20 min; 125% ~ 150%: Shut down in 2 min; > 150%: Shut down in 1 s			
BATTERIES				
DC voltage	192 Vdc (168 / 192 / 216 / 240 Vdc optional)			
Inbuilt battery	16×7 Ah	/	16×9 Ah	/
Charging current	Standard model: 1 A; Long time model: 1 A, 2 A, 3.5 A (settable)			
Recharge time	Standard model (S): 90% capacity restored in 4 hours; Long time model (H): depend on the capacity of battery			
SYSTEM				
EFFICIENCY	≥ 93%, ECO mode 98%			
Display	LCD + LED			
Alarms	Battery mode, battery voltage low, fans fault etc.			
Maximum Parallel numbers	6			
Communications	RS232 (standard), USB / RS485 / dry contacts / SNMP (optional)			
EMI	IEC/EN62040-2			
EMS	IEC61000-4-2 (ESD)			
	IEC61000-4-3 (RS)			
	IEC61000-4-4 (EFT)			
	IEC61000-4-5 (Surge)			
OTHERS				
Humidity	20 ~ 90% RH @ 0 ~ 40°C (non-condensing)			
Noise level	≤ 55 dB (1 m)			
Dimensions (W×D×H) (mm)	191×462×710	191×462×350	191×462×710	191×462×350
Packaged dimensions (W×D×H) (mm)	308×640×896	267×573×436	308×640×896	267×573×436
Net weight (kg)	58.7	15.6	67.2	16.1
Gross weight (kg)	64.8	17.9	73.3	18.4

- Derate capacity to 70% in frequency conversion mode and to 90% when the output voltage is adjusted to 208 Vac.
- S means standard model, H means long time model.

- All specifications subject to change without notice.
- Custom-made specifications are acceptable.