

TITAN-33 SERIES

Three Phase Input / Three Phase Output

Power range: 30kVA~200kVA



Core Highlights



Wide Input voltage range: 208Vac-478Vac; suitable for harsh grid environments.



High System Efficiency: Up to 94.5% efficiency in normal mode, reducing energy loss.

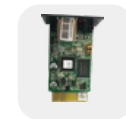


High output accuracy: $\pm 1\%$ output voltage error.

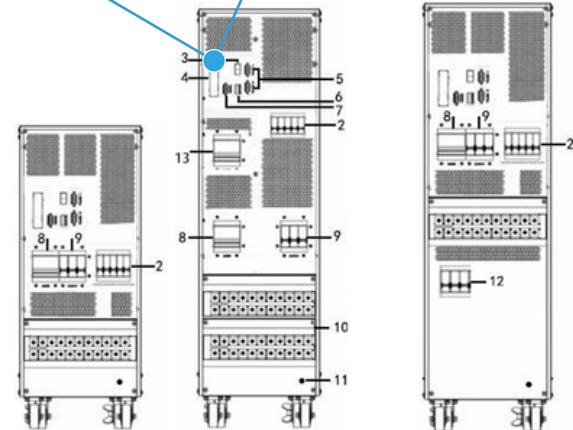
Features

- **Advanced DSP Digital Control:** High-speed digital processing technology ensures maximum system stability, reliability, and precise voltage regulation.
- **Online Double-Conversion:** True online technology with PFC (Power Factor Correction) provides total isolation from grid noise and blackouts.
- **High Output Power Factor (0.9):** Delivers more real power to handle demanding loads, maximizing your power density and investment.
- **Flexible Battery Configuration:** Supports adjustable battery strings (± 16 to ± 20 pcs) with intelligent charging management to optimize battery lifespan.
- **N+X Parallel Redundancy:** Supports up to 4 units in parallel with shared battery packs, allowing for easy capacity expansion and system reliability.
- **ECO Mode Operation:** High-efficiency mode (up to 98.5%) significantly reduces energy consumption and lowers long-term operational costs.
- **Versatile Phase Modes:** Highly adaptable design supporting multiple input/output phase configurations (3:3, 3:1, 1:3, 1:1) for diverse industrial applications.
- **Comprehensive Monitoring:** Equipped with USB and RS485 interfaces, with optional SNMP and Dry Contact cards for 24/7 remote oversight.

SNMP card



Dry contact card



Rear view (remove the baffle)

Custom built-in battery engine rear view

Technical Specifications

Model		TT-33-30KS	TT-33-60KS	TT-33-80KS	TT-33-100KS	TT-33-120KS	TT-33-160KS	TT-33-200KS
Rated Power		30kVA/27kW	60kVA/54kW	80kVA/72kW	100kVA/90kW	120kVA/108kW	160kVA/144kW	200kVA/180kW
Input	Voltage Range	208-478Vac 3P4W+G						
	Working Frequency Range	45-55Hz at 50Hz/54-66Hz at 60Hz (self-adapting)						
	Input Power Factor	≥0.99						
Output	Rated Voltage and Accuracy	380/400/415Vac(1±1%)3P4W+G						
	Output Frequency	Synchronized with input; mains frequency ≥ maximum 10%, output frequency is 50(0.2%)Hz; 50/600.2% (battery)						
	Rated Current	45A	91A	121A	152A	182A	242A	304A
	Output Power Factor	0.9						
	Output Harmonic Wave	≤2% liner ; <5% non-linear						
	Crest Factor	3:1						
	Output Overload	Load≤110%: 60 mins;Load≤125%: 10 mins;Load≤150%: 1 min; Load≥150% shutdown immediately						
Conversion time between Mains Power and Battery		0ms						
Efficiency		normal mode >94.5%						
Battery	Rated Voltage	default +192Vdc						
	Quantity	32~40 pcs						
	Charging Current	20A	20A max		24A (Adjustable)	36A(Adjustable)		54A(Adjustable)
	Dimensions(LxWxH)mm	719x260x545	865x300x970		1000x430x1200		1000x600x1200	
	Weight	43.6 kg	96 kg		169 kg		249 kg	
	Working Temperature	0°C~40°C						
	Working Humidity	0-95%(non-condensing)						
	Storage	-25~55°C						
	Altitude	<1500m						
	Noise Level (dB)	≤65dB						

Note:

1. Product specifications are subject to change without notice.
2. **Model Suffix Guide:**
 - S:** Long-run model (Designed for external battery bank connection).
 - KVA:** Standard model (Equipped with internal batteries).