

TPower Pure Sine Wave Inverter

10000-40000VA, 110/220VDC



Overview:

TPower series, based on a full intelligent digital design, is a pure sine wave power frequency inverter that converts DC 110V (220V) into 220 (230V) AC power. The inverter combines DC-AC module and AC-AC bypass module in parallel. It has excellent characteristics like high reliability, high efficiency, extensive electronic protection, convenient installation, and operation, which makes it the best choice.

Features:

- *Adoption of completely isolated inverter technology
- *Adoption of advanced SPWM technology, pure sine wave output
- *Low output harmonic distortion (THD≤3%)
- *Output voltage 220/230VAC and frequency 50/60HZ optional
- *Function of real-time power query and output power statistics
- *Friendly operation interface
- *Multiple automatic protection functions of short circuit / overheating overload
- *Overload operation under 1.1times continue for 10 minutes
- *Fan intelligent control, reduce loss and noise
- *Adopt high reliability and imported semiconductor module
- *Remote monitoring and hardware startup
- *360°Free movement and fixation (Optional casters)

Specifications

Item	TP10K-110/220-1	TP10KB-110/220-1	TP10K-220/220-1	TP10KB-220/220-1	TP20K-220/220-1	TP20KB-220/220-1	TP30K-220/220-1	TP30KB-220/220-1	TP40K-220/220-1	TP40KB-220/220-1
Rated input voltage	110VDC		220VDC		220VDC				220VDC	
Battery Input voltage range	93VDC ~ 146VDC		187VDC ~ 293VDC		185VDC ~ 295VDC		185VDC ~ 295VDC		203VDC ~ 280VDC	
Max. input current	122A		60A		150A		234A		263A	
Rated output power	10000VA				20000VA		30000VA		40000VA	
Output voltage	220/230VAC±3% (Battery power mode)				220/230VAC±3% (Battery power mode)				220/230VAC±3% (Battery power mode)	
Output frequency	50Hz/60Hz±3% (Battery power mode)				50Hz/60Hz±3% (Battery power mode)		50Hz/60Hz±3% (Battery power mode)		50Hz/60Hz±3% (Battery power mode)	
Output power factor	0.2 ~ 1				0.2 ~ 1				0.2 ~ 1	
Output way	Single-phase				Single-phase				Single-phase	
Output wave	Pure Sine Wave				Pure Sine Wave				Pure Sine Wave	
Output THD	≤ 3%(Resistive load)				≤ 3%(Resistive load)				≤ 3%(Resistive load)	
Max. inverter efficiency	> 90% (Resistive rated load)				> 90% (Resistive rated load)		> 90% (Resistive rated load)		> 92% (Resistive rated load)	
Bypass Input voltage range	—	170VAC ~ 275VAC	—	170VAC ~ 275VAC	—	170VAC ~ 275VAC	—	170VAC ~ 275VAC	—	170VAC ~ 275VAC
Bypass transfer time	12mS				12mS				12mS	
No-load consumption	≤ 2%				≤ 2%		≤ 2%		≤ 2%	
Operating temperature	-25°C ~ 50°C									
Enclosure	IP20									
Relative humidity range	0 ~ 95%(N.C.)									
Altitude	5000m (Derating above1500m)									