

TD Series

Pure Sine Wave Inverter



The TD Series is a professional low-frequency toroidal transformer inverter charger for backup, off-grid, and energy storage systems. It features pure sine wave output (10–30KW rated, 30–90KW surge power), ≤8ms UPS transfer, built-in AVR stabilizer, and ≥85% transfer efficiency. It includes a 20A AC charger compatible with lead-acid and lithium batteries, with selectable 48/96/192/240V battery voltage and RS485 communication.

FEATURES

-  Rated power 10KW-30KW.
-  Pure sine wave AC output.
-  Clear display for real-time system monitoring.
-  With CAN/RS485 for BMS communication.
-  High efficiency, low loss, long-term reliability.
-  Compatible with LiFePO4 batteries.
-  WiFi remote monitoring (optional).

PRODUCT CONNECTION DIAGRAM



Model	TD-103	TD-123	TD-153	TD-203	TD-303
Rated Power	10KW	12KW	15KW	20KW	30KW
Surge Power	30KW	36KW	45KW	60KW	90KW

AC Input & Output					
Voltage	220VAC				
Selectable Voltage Range	165-275VAC (220VAC)				
Frequency Range	50Hz/60Hz automatic recognition				
AC Voltage Regulation (BATT. Mode)	(DC Batt.mode)220vac±3%				
Transfer Time	≤8ms				
Wave Form	Pure Sine Wave				
Transformer Type	Toroidal				
Transfer Efficiency	≥85%				

Battery				
Battery Voltage	48/96VDC	48VDC	192VDC	240VDC
Type	Gel/SLA/AGM/Water/Lithium(lifepo4) Battery			
DC Charge Voltage	40~64VDC(48V)/ 80~128VDC(96V)	40~64VDC(48V)	160~256VDC(192V)	200~320VDC(240V)

AC Charger	
Maximum AC Charge Current	20A
Communication Portal	
Type	RS485, available for wifi box & external control screen

Physical					
Dimension, D*W*H(MM)	650*410*890 (48V) 710*420*920 (96V)	650*410*890 (48V)	750*450*1050		800*500*1100
G.W.(KGS)	63 (48V) 82 (96V)	73	140	148	153

Environment	
Humidity	0~95% (NO Condensation)
Operating Temperature	0~60°C
Storage Temperature	0~60°C

www.one-inverter.com