

ROSSO TDD Series

ONLINE TECHNOLOGY (VFI)
FOR MAXIMUM PROTECTION

1000VA ~ 3000VA

The **ROSSO TDD Series** is the ideal UPS for applications that require extended battery operation and for medium-voltage substations. Its advanced technology maximises battery life and ensures high efficiency



PERFECT
FOR



Servers and
networking



Telecom



Industrial applications



Medium voltage
substation



Healthcare

Features



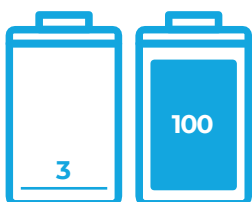
- Online double conversion technology (VFI) from 1000 VA to 3000VA with a power factor of 0.9.
- Easy to install.
- Low running costs: the high efficiency VFI and ECO features minimise energy consumption.
- High uptime expandability.
- User-friendly monitoring software can be downloaded free and is compatible with the main operating systems, for: monitoring functions, diagnostics, controlled shutdown of loads in the event of blackouts.
- High overload handling capacity.
- Constant voltage constant frequency (CVCF) output mode for maximum protection of particularly sensitive loads (e.g. electromedical equipment).
- Wide input voltage and frequency ranges reduce battery switching, thereby increasing battery life and efficiency.
- Option to set the percentage residual battery charge from 3% to 100% of the available capacity.
- Accurate calculated remaining uptime is shown on the display.
- Cold start option.
- Firmware can be upgraded easily to implement new features.
- EPO and On/Off, with remote option.
- RS232 and USB ports, slots for additional communication cards.
- Supplied with input and output power cables.

Options



- Cards: RS485, SNMP/web and relay card with dry contacts to send the UPS status to various systems, such as BMS, PLC, SCADA and AS400.
- External manual bypass with additional sockets.
- External battery cabinets

Residual Battery Charge Management



- 1) Set the battery discharge level (3-100%) with the included software.
- 2) The UPS turns off when it reaches the set residual battery charge level.
- 3) The UPS can be switched on again manually even without mains power.

Specifications

MODEL		ROS TDD -1000E	ROS TDD -2000E	ROS TDD-3000E	
INPUT	Phase	Single phase			
	Voltage Range*	110~300Vac			
	Frequency Range	44~66Hz (Auto sensing)			
	Input Power Factor	>0.99 @ 100% linear load			
OUTPUT	Capacity	1000VA/900W	2000VA/1800W	3000VA/2700W	
	Output Voltage	220/208/220/230/240 Vac			
	Output Power Factor	0.9			
	Output Voltage Distortion	<3% @ 100% Linear load <7% @ 100%-non linear load			
	Output Voltage Regulation	±1%			
	Frequency Range	±1Hz or ±3Hz(selectable)			
	Crest Factor	3:1			
	Output Waveform	Pure SineWave			
EFFICIENCY	Line Mode	Up to 92%			
	High Efficiency Mode	Up to 96,5%			
PHYSICAL	Dimensions (WxHxD, mm)	147x224x388	192x250x386	192x250x386	
	Net Weight (kg)	11.6	22.2	29.8	
BATTERY	Capacity	12Vdc/7AH		12Vdc/7Ah	
	Battery Number	3	6	6	
	Battery Voltage	36	72	72	
	Recharge Time (to 90%)	4 hours			
	Battery Bank	Code	BT0603670000	BT1207270000	
		Number of batteries	6	12	
		Battery type	Lead acid maintenance free 12V 7Ah		
Dimensions (WxHxD, mm)		154 x 258 x 404	192 x 320 x 553		
DISPLAY	3-KEY Display	Voltage/ Frequency / Load level / Battery voltage / Output current Estimated back-up time / Temperature			
	Self-Diagnostics	Upon power-on, Front panel setting & software control, 24 hours routine check			
ALARM	Audible or Visual	Line failure/Battery low/Transfer to bypass/System fault			
PROTECTION	Full protection	Overload, over temperature, short circuit, deep discharge, overcharge			
	Multi-Mode	Normal/ECO/CVCF			
	DC Start	Yes			
ENVIRONMENT	Operation Temperature	0~40°C			
	Operation Humidity	0%~90% (without condensing)			
	Altitude	1000m without derating			
	Noise Level	≤ 50dBA @ 1 meter front			
INTERFACE	Standard	RS-232, EPO, USB, SNMP Slot			
	Option	Dry contact card, SNMP/Web card, RS485			
	Compatible platforms	Microsoft Windows series, Linux, Mac			
OUTLETS	Schuko (16A)	1	2		
	IEC320C13 (10A)	3	3		
CERTIFICATIONS	Safety & EMC	IEC EN 62040-1, IEC EN 62040-2			
	Performance	IEC EN 62040B			
	Marks	CE			