

UPS line

TSR610-TSR620-TSR630

1KVA-2KVA-3KVA

Features :

- Pure sine wave output
- Output power factor 0.8
- DSP digital control
- Boost and buck AVR for voltage stabilization
- Auto sensing frequency
- Adjustable charging current and battery shutdown point
- Settable ECO mode and no-load shutdown
- Humanized alarm system
- Power-on self test
- Cold start
- Auto restart when mains power is restored
- Intelligent battery management
- Short circuit and overload protection
- Automatic charging in OFF mode
- USB & RJ45, AS400 / SNMP (optional) communication port



Rear Panel :

1. USB/RJ45
2. Output Sockets
3. EXT Battery
4. AC Breaker
5. Input
6. SNMP (optional)
7. Fan



Spécifications :

MODEL	TSR605	TSR610	TSR615	TSR620	TSR630
Capacity	500 VA / 300 W	1000 VA / 800 W	1500 VA / 1200 W	2000 VA / 1600 W	3000 VA / 2400 W
DC INPUT					
Rated voltage	12 V	24 V		36 V (S) 48 V (H)	48 V
DC input range (default)	10 ~ 15V	20 ~ 30 V		30 ~ 45 V (S) 40 ~ 60 V (H)	40 ~ 60V
AC INPUT					
AC input range (bypass mode)	0 ~ 121 V / 132 V / 138 V / 144 Vac for 100 V / 110 V / 115 V / 120 Vac ± 10 Vac 0 ~ 242 V / 264 V / 276 V / 288 Vac for 200 V / 220 V / 230 V / 240 Vac ± 10 Vac				
AC input range (mains mode)	100 V: 70 ~ 130 Vac 120 V: 90 ~ 150 Vac	110 V: 80 ~ 140 Vac 200 V: 145 ~ 260 Vac	115 V: 85 ~ 145 Vac 220 V: 165 ~ 280 Vac	230 V: 175 ~ 290 Vac 240 V: 185 ~ 300 Vac	
Frequency input range	50 Hz / 60 Hz (auto-sense), 50 Hz / 60 Hz ± 5% ~ 15%				
Generator connection	Available (generator input power is settable)				
OUTPUT					
Inverter output range	100 V / 110 V / 115 V / 120 Vac ± 5% (settable) 200 V / 220 V / 230 V / 240 Vac ± 5% (settable)				
AC output range (bypass mode)	0 ~ 121 V / 132 V / 138 V / 144 Vac for 100 V / 110 V / 115 V / 120 Vac ± 10 Vac 0 ~ 242 V / 264 V / 276 V / 288 Vac for 200 V / 220 V / 230 V / 240 Vac ± 10 Vac				
AC output range (mains mode)	100 V: 90 ~ 110 Vac 120 V: 108 ~ 132 Vac	110 V: 99 ~ 121 Vac 200 V: 166 ~ 226 Vac	115 V: 103 ~ 126 Vac 220 V: 188 ~ 245 Vac,	230 V: 199 ~ 254 Vac 240 V: 210 ~ 264 Vac	
Output frequency	50 / 60 Hz ± 0.3 Hz (settable)				
Waveform	Pure sine wave				
Inverter efficiency	Max. 75%	Max. 80%		Max. 85%	
Energy saving mode	Settable (< 3% load) , enter in 80 s				
No-load shutdown	Settable (< 3% load), shut down in 80 s				
Transfer time	≤ 10 ms				
THDV (resistive load)	≤ 5%				
Protections	Overload, short circuit (inverter), battery low voltage, battery overcharge, overtemperature				
Overload time (mains mode)	120 s for 110%, 60 s for 125%, 10 s for 150% (transfer to bypass mode)				
Overload time (inverter mode)	60 s for 110%, 10 s for 125%, 5 s for 150% (Shut down directly)				

Mute	Automatic mute in 60 s or by manual				
BATTERIES					
Battery capacity	12 V x 1	12 V / 7 Ah x 2	12 V / 9 Ah	12 V / 9 Ah x 3	12 V / 9 Ah x 4

(H: external expansion)			x 2	(H: 12 V x 4)		
Charging current	Standard model (S): 1 A (default)					
	Long time model (H): 10 A (default); < 10 A, set step 1 A; ≥ 10 A, set step 5 A					
	Max. 10 A (H)	Max. 15 A (H)	----	Max. 20 A (H)	Max. 25 A (H)	
Equalizing charge voltage	Single battery 14.1 Vdc (default), 13.6 ~ 15 Vdc adjustable					
Floating charge voltage	Single battery 13.5 Vdc (default), 13.2 ~ 14.6 Vdc adjustable					
Low voltage alarm point	Single battery 10.8 Vdc (default), 9.6 ~ 13 Vdc adjustable					
Low voltage shutdown point	Single battery 10.2 Vdc (default), 9.6 ~ 11.5 Vdc adjustable					
COMMUNICATIONS						
USB+RJ45	Supports Windows® 98 / 2000 / 2003 / XP / Vista / 2008 / 7 / 8 / 10					
SNMP (optional)	Power management from SNMP manager and web browser (standard with slot)					
OTHERS						
Operating temperature	5°C ~ 40°C					
Operating humidity	Relative humidity ≤ 93%					
Noise level	≤ 50 dB (1m)					
Tower	Dimensions (W×D×H) (mm)	345 x 215 x 144 (S / H)			410 x 215 x 144 (S) 345 x 215 x 144 (H)	467 x 335.5 x 190 (S / H)
	Packaged dimensions (W×D×H) (mm)	427 x 316 x 236 (S / H)			492 x 316*236 (S) 427 x 316 x 236 (H)	592 x 462 x 320 (S / H)
	Net weight (kg)	7.0 (H)	12.2 (S) 11.6 (H)	14.2 (S)	18.5 (S) 17.8 (H)	28.1 (S) 28.0 (H)
	Gross weight (kg)	8.0 (H)	13.2 (S) 12.6 (H)	15.2 (S)	19.8 (S) 18.8 (H)	30.2 (S) 30.0 (H)
Rack mount	Dimensions (W×D×H) (mm)	--	440 × 338 × 88 (S)	440 × 410 × 132 (S)		
	Packaged dimensions (W×D×H) (mm)	--	611 × 448 × 208 (S)	611 × 505 × 235 (S)		
	Net weight (kg)	--	14.6 (S)	17.2 (S)	21.3 (S)	26.7 (S)
	Gross weight (kg)	--	16.8 (S)	20.4 (S)	24.5 (S)	30.5 (S)

- * S means standard model
- * All specifications subject to change without notice
- * Custom-made specifications are acceptable