Tescom® SA
Uninterruptible Power Supplies

Uninterruptible Power Supplies

MERCURY
1KVA 2KVA 3KVA

secure power



Online Tower UPS Series

- True online double conversion.
- Mimic LCD display with multifunction parameter settings & operational status.
- Wide input voltage range for the hashest environment.
- Support generator input.
- Super powerful charger for battery backup extension.
- Support economic operation mode.
- Cold start function is built-in.
- Bundled communication software supports Windows application etc.
- Matching battery pack.
- 3-level intelligent charging modes.
- Output power factor 0,9.
- >90% high efficiency models available.

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MODEL	UDC9101S	UDC9102S	UDC9103S
Phase	Single phase with ground		
Capacity	1000VA / 900W	2000VA / 1800W	3000VA / 2700W
INPUT			
Rated voltage	100/110/115/120/127VAC or 200/208/220/230/240VAC		
Voltage range	55-145VAC or 110-300VAC		
Frequency range	40Hz - 70Hz (auto detect)		
Power factor	≥0,99		
Bypass voltage range high voltage point	**For 200/208/220/230/240 VAC models:** 230-264: setting the high voltage point in LCD from 230Vac to 264Vac (default 264Vac) **For 100/110/115/120/127 VAC models:** 115-132: setting the high voltage point in parameter 3 from 115Vac to 132Vac (default 132Vac)		
Bypass voltage range low voltage point	**For 200/208/220/230/240 VAC models:** 170-220: setting the low voltage point in LCD from 170Vac to 220Vac (default 170Vac) **For 100/110/115/120/127 VAC models:** 95-110: setting the low voltage point in parameter 3 from 95Vac to 110Vac (default 95Vac)		
ECO range	Same as the bypass		
Generator input	Support		
OUTPUT			
Phase	Single phase & Ground		
Rated voltage	100/110/115/120/127VAC or 200/208/220/230/240VAC		
Power factor	0.9		
Voltage regulation	±1%		
Frequency range(Utility. mode)	47-53Hz(for 50Hz) or 57-63Hz(for 60Hz)		
Frequency range(batt. mode)	50/60Hz±0.01Hz		
Crest factor	3:1		
THDv	≤3% with linear load; ≤6% with non linear load		
Waveform	Pure Sinewave		
EFFICIENCY			
AC mode (full load)	>88%	>89%	>90%
BATTERY			
Voltage	24Vdc	48Vdc	72Vdc
Quantity	2pcs	4pcs	6pcs
Capacity (standard unit)	12V/9AH		
Backup	Long run unit depends on the capacity of external batteries		
Recharge time to 90%	4 hours		
Charging current (built-in/Max)	1A; Max 12A		
TRANSFER TIME	Utility to battery: 0ms; Utility to bypass: <4ms		
PROTECTION			
Overload AC mode	Ambient temp<°35 C: 105%-110%:UPS shuts down after 10min at battery mode or transfer to bypass when the utility is normal 110%-130%:UPS shuts down after 1 min at battery mode or transfer to bypass when the utility is normal >130% UPS shuts down after 3 sec at battery mode or transfer to bypass when the utility is normal		
Overload bat. mode	35°C<Ambient temp<°40 C: 105%-110%:UPS shuts down after 1min at battery mode or transfer to bypass when the utility is normal >110% UPS shuts down after 3 sec at battery mode or transfer to bypass when the utility is normal		
Overload bypass mode	10A(Input breaker)	16A(Input breaker)	20A(Input breaker)
Short circuit	Hold whole system		
Overheat	Line mode: Switch to bypass: Backup Mode: Shut down UPS immediately		
Battery low	Alarm and switch off		
EPO (optional)	Shut down UPS immediately		
Battery	Advanced battery management		
ALARM			
Audible & visual	Line failure, low battery, overload, system fault		
DISPLAY			
Status LED & LCD	Line mode, backup mode, eco mode, bypass mode, low battery, bad battery, overload and UPS fault		
Reading on the LCD	Input voltage, input frequency, output voltage, output frequency, load percentage, battery voltage		
PHYSICAL			
Standard Model – Dimension (WxHxD)	144x209x293	144x209x399	191x337x460
Standard Model – Weight (kg)	9,8	17	27,6
COMMUNICATION INTERFACE			
Communication port	RS232 or USB		
Communication slot	SNMP Card, relay card etc		
ENVIROMENT			
Operating temperature	0°C-40°C		
Humidity	20-90% non condensing		
Altitude	< 1500m (derating while >1500m)		
Noise	<50dB(at 1 meter)		
SAFETY CONFORMANCE	IEC/EN62040-1-1, IEC/EN62040-2		

* Due to continuous product improvements specifications are subject to change without further notice.

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All products are manufactured to the following standards: