



### Features

- High frequency on-line double conversion technology
- DSP (Digital signal processing) control technology
- Active power factor correction (APFC), input power factor up to 0.99
- Output power factor 0.9
- Wide input voltage range (110V ~ 300Vac)
- Auto sensing frequency
- 50 / 60 Hz frequency conversion
- Digitally controlled charger, charging voltage and current configured by demands

Rear Panel

1. AC input socket

4. USB (Optional)

5. EPO (Optional)

8. Output sockets

3. Fan

6. RS232

2. Battery connector (Optional)

7. Intelligent slot (Optional)

- High charging current available (Max. 12 A)
- Cold start

## www.unisonups.com

**Specifications** 

MODEL

Capacity

Rated voltage

Voltage range

Frequency

THDi

OUTPUT

Voltage

Frequency

Waveform

THDV

Power factor

Crest factor

Battery type

Inbuilt battery

Recharge time

Charging current (max.)

DC voltage

SYSTEM

Efficiency

Transfer time

Communication port

Storage temperature

Operating altitude

Noise level at 1m

Dimensions (W×D×H) (mm)

Packaged dimensions

(W×D×H) (mm)

Net weight (kg)

Gross weight (kg)

ENVIRONMENT Operating humidity

Protections

Display

IP rating

OTHERS

Overload BATTERIES

Power factor

Bypass voltage range Rated input frequency

Isolation Transformer

INPUT

# **UNIL 1kVA-3kVA**

**Online UPS Models** 

UNIL series operates with programmable power management outlet along with the availability of hot standby feature and it's static bypass improves its reliability. The SNMP card is also available on demand as an option. This series is based on High Frequency Double Conversion IGBT technology with static bypass which improves reliability and consists of advanced PFC technology or battery management. The fixed output frequency can be synchronized with the input frequency.

- Rear ventilation design and variable speed fan
- Effective software and hardware protection
- Quick and stable charging, 90% capacity restored in 3h (standard model UPS)
- Linear derating in low voltage input reducing battery discharging times
- Advanced battery management (ABM)
- Multiple functions settable via LCD: output voltage, EOD, autostart, bypass mode, ECO mode
- Multi-platform communications: RS232 (standard), USB / RS485/ SNMP / dry contacts (optional)
- Optional USB, RS485 card, AS400 dry contacts, SNMP card, SMS alarms, EPO function



Optional outlets

		]0	
анал С			
		<b>0</b>	
IT SOCKET	0	0	

2KS (DC48V) / 2KH / 3KH

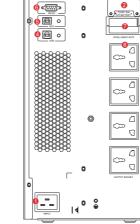
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**4** • ...

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1KS / 1KH

•==|



2KS (DC72V) / 3KS

•S means standard model, H means long time model. • All images and specifications are subject to change without notice.

•Derate capacity to 90% when the output voltage is adjusted to 208Vac.

•Custom-made specifications are acceptable

## Online Transformerless UPS



	UNIL	- 1K			UNIL	- 2K		UNIL - 3K			
	1 kV/	4 / .9 kW			2 kVA	\ / 1.8 kV	1		3 kVA / 2.7 kW		
110 - 176		r doroting	hotwoon F		8 / 220 / 2			larating); (	200 - 200 1	laa (darat	ing 50%)
110~170	vac ( iiriea	ar derading	between 5					ieraung), z	200~300	ac (uerai	ting 50%)
	50/60 Hz ± 5 Hz (auto-sensing) ≥ 0.95 ≥ 0.99										
- 40% ~ +20% (settable)											
				50 H	lz / 60 Hz	z (auto-s	ense)				
					≤	5%					
			209	8/220/2	230 / 240	Vac (sot	table via				
			200	5722072		nal / Exte		LOD)			
	45~	55 Hz or	55∼65⊦	Iz (synch				z ± 0.1 Hz	(battery	mode)	
						soidal					
0.9											
≤ 2% (linear load), ≤ 5% (non-linear load) 3:1											
10	)5% ~ 11	0% for 3	0 min, 11	0% ~ 130			0% ~ 150	% for 30	s, > 150°	% for 500	) ms
					acid ma			-			
24V (S)	24V (H)	36V (S)	36V (H) /	48V (S)		72V (S) 6×7 Ah	72V (H) /	72V (S) 6×9 Ah	72V (H)		96V (H)
2×9Ah	/	3×7Ah	1	4×9 Ah 1:	/ 2 A (1 ~12			0×9 A11	/	8×7 Ah	/
Stand	lard mode	el: 90% ca	apacity re				,	lepend or	n the capa	acity of ba	attery
	3.5% mode)		3.5% mode)		1.5% mode)	1	≥ 94.5% ≥ 94.5%			≥ 95.5% (Mains mode)	
			· · ·			(Mains mode)		(Mains mode)			
	9% y mode)		0% y mode)		1% / mode)	≥ 92.5% (Battery mode)		≥ 92.5% (Battery mode)		≥ 93% (Battery mode)	
1	3.5%		3.5%	≥ 9		≥ 99%		≥ 99%		≥ 99%	
(ECO	mode)	(ECO	ECO mode) (ECO mode) (ECO mode) (ECO mode) (ECO mode)							mode)	
			Inv		node to b le to bypa						
	Short-circ		oad, overt				• •			g protecti	on
		RS23	2 (standa	ard), USI			P/drycor	ntacts (o	ptional)		
					LCD	+ LED					_
			0~	95 % RH	l @ 0 ~ 4(	D°C (non	-conden	sing)			
				-25°C -	~ 55°C (e	xclude b	atteries)				
			≤ 1000m	n, above 1	1000m, de	-	% for eac	ch additio	onal 100	m	
						20					
					≤ 5	0 dB					
144	144	144	144	144	144	191	144	191	144	191	144
×312 ×216	×312 ×216	×371 ×216	×312 ×216	×417 ×216	×417 ×216	×419 ×335	×417 ×216	×419 ×335	×417 ×216	×419 ×335	×417 ×216
230	230	230	230	230	230	277	230	277	230	277	230
×402 ×315	×402 ×315	×460 ×315	×402 ×315	×506 ×315	×506 ×315	×500 ×435	×506 ×315	×500 ×435	×506 ×315	×500 ×435	×506 ×315
8.8	4.0	10.9	4.0	15.9	6.1	21.4	6.1	23.8	6.5	25.6	6.5
9.8	5.1	12.1	5.1	17.3	7.5	23.1	7.5	25.6	8.0	27.3	8.0