

# UDC SERIES

Mode: 1~3kVA

Power range: 1:1 phase PF: 1.0 ( PF0.9, 0.8 Optional)



## Features

- Online double conversion .
- Wide input voltage range (60~150Vac).
- Input power factor 0.99 (With PFC).
- Output power factor 1.0.
- Standard model charging current can be charged either 1A.
- 50Hz/60Hz frequency converter mode.
- Emergency power off function (EPO).
- ECO mode operation for energy saving (ECO) .
- Generator compatible .
- SNMP + USB + RS232 multiple communications.
- Smart battery charging design for optimizing battery performance.
- Selectable output voltage: 100\*, 110\*, 115, 120, 125 Vac.



Colourful LCD



Gray LCD

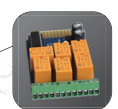


Blue LCD

3 kinds of LCD can be selected



Battery Cabinets.  
(Optional)



Relay card



SNMP

Tb Plus<sup>®</sup>



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UDC MODEL		UDC9601S One		UDC9602S One		UDC9603S One	
Capacity (VA/Watts)		1000VA / 1000W		2000VA / 2000W		3000VA / 3000W	
Phase		Single phase with ground with ground					
INPUT							
Nominal Voltage		120Vac					
Operating voltage range	Low line transfer	90Vac @100%load	60Vac @60%~0%load	60 ~90VAC@Linear adjustment		(Ambient Temp. <35℃)	
	Low line comback	100Vac @100%load	70Vac @60%~0%load	70 ~100VAC@Linear adjustment		(Ambient Temp. <35℃)	
	High line transfer	150Vac ± 5%					
	High line comback	140Vac ± 5%					
Input Voltage Range		60~150Vac @ 60% load 90~150Vac @ 100% load					
Operating frequency range		40~70Hz					
Power Factor		≥ 0.99 @ nominal voltage(100% load)					
THDI		≤5% (@100%Linear load,@ nominal voltage)					
Generator input		Support					
Plug Type		NEMA 5~15P		NEMA 5~20P		NEMA 5~30P	
OUTPUT							
Output Voltage		100*/ 110*/115/120/125 Vac					
Power Factor		1					
Voltage Regulation		± 1%					
Outlet Type		NEMA 5~15R 4pcs		NEMA5~20R 4pcs		NEMA5~20R 4pcs +1PCS 5~L30R	
Frequency	Line mode	47~53Hz or 57~63Hz					
	Bat. mode	(50/60 ± 0.1)Hz					
Crest Factor		3:1					
Harmonic Distortion (THDv)		≤3% THD (Linear load)					
		≤5% THD (Non-linear load)					
Waveform		Pure Sinewave					
Transfer Time	AC mode <-> Batt. Mode	Zero					
	Inverter <-> Bypass	4ms(Typical)					
EFFICIENCY							
AC Mode		90.8%		89.21%		92.31%	
Battery Mode		85.773%		86.78%		87.2%	
ECO Mode		95.26%		95.65%		98.41%	
VRLAB BATTERY							
Battery Type		12V7AH		12V 7AH		12V9AH	
Numbers		3		6		6	
Backup time		Full load according to actual measurement ( only refers to standard UPS ) , As for long backup UPS, the backup time is determined by the capacity of battery.					
Typical recharging time(Standard mode)		8 hours recover to 90% capacity					
Charging voltage		41Vdc ± 1%		82.1Vdc ± 1%		82.1Vdc ± 1%	
Charging current(max.)		1A					
SYSTEM FEATURES							
Line mode	Ambient temp.<35℃	105%~110%: UPS after 10 minutes transfer to bypass					
		110%~130%: UPS after 1 minute transfer to bypass					
		130%~150%:UPS after 5 seconds transfer to bypass					
		>150%:UPS immediately transfer to bypass					
	35℃<ambient Temp.<40℃	105%~110%: UPS after 1minute transfer to bypass					
		110%~130%: UPS after 5 seconds transfer to bypass					
		>130%: UPS immediately transfer to bypass					
Battery mode	Ambient temp.<40℃	105%~110%: UPS after 1minute shut down					
		110%~130%: UPS after 5 seconds shut down					
		>130%: UPS immediately shut down					
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					
Audible & Visual alarms		Line failure, Battery low, Over load, System fault					
Communication interface		USB, RS232, MINI SNMP SLOT					
PHYSICAL							
Dimension W × H × D (mm)		144*209*399		191*337*460		191*337*460	
Net Weight (kg)		12.6		24.3		26.9	
ENVIRONMENT							
Operating temperature		0~40℃					
Storage temperature		-25℃ ~ 55℃					
Humidity range		20~90% RH @ 0~40℃ (Non-condensing)					
Altitude		<1500m					
Noise Level		<55dB(1m)					
Environmental		RoHS2.0 compliant					
STANDARDS							
Safety		UL 1778, cUL Listed					
EMC		FCC DoC Class A					
IP code		IP20					

\* Derate to 80% of capacity when the output voltage is adjusted to 100/110VAC