



FEATURES

- Online double conversion
- Wide input voltage range (110~300Vac)
- Input power factor 0.99 (With PFC)
- Output power factor 0.9
- Maximum charging current 12A (Long run unit)
- Charging current can be set by LCD
- 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 optimized battery performance
- Selectable output voltage: 200, 208, 220, 230, 240Vac
- Low priority load disconnection function
- Smart battery charging design for optimizing battery performance
- 1A or 2A charging current can be selected 2A charging current is for 2 groups of inside batteries



Colourful LCD



Gray LCD



Blue LCD

3 kinds of LCD can be selected



Battery Cabinets.
(Optional)



Relay card



SNMP

TECHNICAL SPECIFICATIONS



MODEL	UDC9101S One				UDC9101H One				UDC9102S One				UDC9102H One				UDC9103S One				UDC9103H One			
Capacity (VA/Watts)	1000VA / 1000W								2000VA / 2000W								3000VA / 3000W							
Phase	Single phase with ground																							
INPUT																								
Nominal Voltage		200/208/220/230/240Vac																						
Operating voltage range	Low voltage of transferring to bypass	160Vac±5% @100%~80%load				140Vac±5% @80%~70%load				120Vac±5% @70%~60%load				110Vac±5% @60%~0%load (Ambient temp. <35°C)										
	Low threshold voltage of recovering from bypass	175Vac±5% @100%~80%load				155Vac±5% @80%~70%load				135Vac±5% @70%~60%load				125Vac±5% @60%~0%load (Ambient temp. <35°C)										
	High voltage of transferring to bypass	300Vac±5%																						
	High threshold voltage of recovering from bypass	290Vac±5%																						
Input Voltage Range		55~150Vac or 110~300Vac @ 60% load, 80~145Vac or 160~300Vac @ 100% load																						
Operating frequency range		40~70Hz																						
Power Factor		0.99																						
Generator input		Support																						
OUTPUT																								
Output Voltage		200/208/220/230/240Vac																						
Power Factor		1.0																						
Voltage Regulation		±1%																						
Frequency	Line mode (Synchronized range)	47~53Hz or 57~63Hz																						
	Bat. mode	(50/60±0.1)Hz																						
Crest Factor		3:1																						
Harmonic Distortion (THDv)		≤2% THD (Linear load) ≤4% THD (Non-linear load)																						
Waveform		Pure Sinewave																						
Transfer Time	AC mode ↔ Batt. Mode	Zero																						
	Inverter ↔ Bypass	4ms(Typical)																						
EFFICIENCY																								
AC Mode		88%				92%				92%														
Battery Mode		85%	86%	85%	86%	87%	88%	87%	88%	89%	90%	89%	90%											
BATTERY																								
Battery Type		12V9AH				Depends on the capacity of external batteries				12V9AH				Depends on the capacity of external batteries										
Numbers		2	3	2	3	4	6	4	6	6	8	6	8											
Backup time		Long run unit depends on the capacity of external batteries																						
Typical recharging time(Standard mode)		4 hours recover to 90% capacity																						
Charging voltage		27.4VDC±1%	41.1VDC±1%	27.4VDC±1%	41.1VDC±1%	54.7Vdc±1%	82.1Vdc±1%	54.7Vdc±1%	82.1Vdc±1%	82.1Vdc±1%	109.4Vdc±1%	82.1Vdc±1%	109.4Vdc±1%											
Charging current(max.)		1A / 2A				12A max,can be set by LCD				1A / 2A				12A max,can be set by LCD										
SYSTEM FEATURES																								
Line mode Battery mode	Ambient temp.<35°C	105%~110%: UPS transfer to bypass after 10 minutes when the utility is normal 110%~130%: UPS transfer to bypass after 1 minute when the utility is normal 130%~150%:UPS transfer to bypass after 5 seconds when the utility is normal >150%:UPS transfer to bypass immediately when the utility is normal																						
	35°C<ambient Temp.<40°C	105%~110%: UPS transfer to bypass after 1 minute when the utility is normal 110%~130%: UPS transfer to bypass after 5 seconds when the utility is normal >130%:UPS transfer to bypass immediately when the utility is normal																						
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, SNMP card(optional), Relay card(optional)																						
PHYSICAL(Output PF 1.0)																								
Dimension W × H × D (mm)		144*209*293	144*209*399	144*209*293	144*209*309	191*337*460	144*209*309	191*337*460	144*209*309	191*337*460	144*209*309	191*337*460	144*209*309	191*337*460										
Net Weight (kg)		9.8	14.4	4	4.1	17	27.1	6.7	6.8	27.6	32.8	7.3	7.4											
PHYSICAL(Output PF 0.8 or 0.9)																								
Dimension W × H × D (mm)		144*209*293	144*209*399	144*209*293	144*209*309	191*337*460	144*209*309	191*337*460	144*209*309	191*337*460	144*209*309	191*337*460	144*209*309	191*337*460										
Net Weight (kg)		9.8	14.4	4	4.1	17	27.1	6.7	6.8	27.6	32.8	7.3	7.4											
ENVIRONMENT																								
Operating temperature		0~40°C																						
Storage temperature		-25°C ~ 55°C																						
Humidity range		20~90% RH @ 0~40°C (Non-condensing)																						
Altitude		<1500m																						
Noise Level		Less than 50dBA at 1 Meter																						
STANDARDS																								
Safety		IEC/EN62040-1,IEC/EN60950-1																						
EMC		IEC/EN62040-2,IEC61000-4-2,IEC61000-4-3,IEC61000-4-4,IEC61000-4-5,IEC61000-4-6,IEC61000-4-8																						

NOTE: Parameters of battery pack of UDC1-3K is in page 6



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- Online double conversion
- Wide input voltage range (110~300Vac)
- Input power factor 0.99 (With PFC)
- Output power factor 1.0
- Optional charging current 1A or 2A for standard unit, 2A charging current is for 2 groups of inside batteries.
- Maximum charging current 12A (Long run unit)
- Charging current can be set by LCD(Long run unit)
- 50Hz/60Hz frequency converter mode
- Emergency power off function (EPO)
- ECO mode operation for energy saving
- Generator compatible
- SNMP + USB + RS232 multiple communications
- Smart battery charging design for optimizing battery performance
- Support lithium battery and BMS
- Selectable output voltage: 200,208,220,230,240Vac
- Low priority load disconnection function
- 8 minutes backup time standard units are optional



Colourful LCD



Gray LCD



Blue LCD

3 kinds of LCD can be selected



Battery Cabinets.
(Optional)



3U for 3KVA standard unit



The LCD panel can be rotated



SNMP



Relay card