

UDC SERIES

1~3kVA

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



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

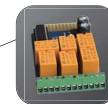


blue LCD

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 <-> Bat. Mode	Zero				
	Inverter <-> Bypass	4ms(Typical)				
EFFICIENCY						
AC Mode	88%		92%		92%	
Battery Mode	85%	86%	85%	86%	87%	88%
BATTERY						
Battery Type	12V9AH		Depends on the capacity of external batteries		12V9AH	
Numbers	2	3	2	3	4	6
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%
Charging current(max.)	1A / 2A		12A max,can be set by LCD		1A / 2A	
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
Net Weight (kg)	9.8	14.4	4	4.1	17	27.1
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
Net Weight (kg)	9.8	14.4	4	4.1	17	27.1
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