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
- $\hfill \blacksquare$ Smart battery charging design for optimizing battery performance
- 1A or 2A charging current can be selected2A charging current is for 2 groups of inside batteries



• 550 S50



Colourful LCD

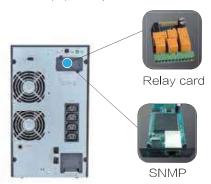
Gray LCD

Blue LCD

3 kinds of LCD can be selected



Battery Cabinets. (Optional)





TECHNICAL SPECIFICATIONS

	ODCSTO	01S One	UDC9101H One	UDC9102S (One	UDC9102H One	UDC9103S One	UDC9103	H One	
apacity (VA/Watts) hase		1000VA	1000W	2000VA / 2000W			3000VA / 3000W			
				Single	e phase	with ground				
e				200/20	08/220/2	230/240Vac				
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. 4 175Vac±5% @100%~80%load 155Vac±5% @80%~70%load 135Vac±5% @70%~60%load 125Vac±5% @60%~0%load (Ambient temp. 4 175Vac±5% @100%~80%load 125Vac±5% @100%~0%load (Ambient temp. 4 175Vac±5% @100%~0%load 125Vac±5% @100%~0%load (Ambient temp. 4 175Vac±5% @100%~0%load 125Vac±5% @100%~0%load (Ambient temp. 4 175Vac±5%									
of recovering from bypass										
transferring to bypass		300Vac±5%								
High threshold voltage of recovering from bypass					290Vac	±5%				
Range			55~150Vac or 110	-300Vac @ 60%	bload, 8	0~145Vac or 160~300)Vac @ 100% load			
uency range					40~7	OHz				
					0.9	9				
t					Supp	ort				
1				200/2	08/220/	230/240Vac				
					1.0)				
ation										
Line mode				17~						
Bat. mode	(50/60±0.1)Hz									
ortion (TUDy)	≤2% THD (Linear load)									
JIIIOII (THDV)	≤4% THD (Non-linear load)									
	Pure Sinewave									
AC mode <->Batt. Mode										
Inverter <-> Bypass					4ms(Ty	rpica l)				
		. 8	8%							
	85%	86%	85% 86%	87% 8	88%	87% 88%	89% 90%	89%	90%	
			I B							
			of external batteries			of external batteries		of external ba	atteries	
	2	3						6	8	
			Long				teries			
	OT # 10 O : 404	I., 0.50	loz # 50 - 40 l 4 # 50 - 40				00 4 11 1 10 100 10 11			
. ,	1A /	/ 2A	12A max,can be set by LCD	1A / ZA		12A max,can be set by LCD	TA / ZA	12A max,can be	set by LC	
TURES			1050/ 1100/ 1		_					
Ambient temp.<35℃	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									
			>150%:UF	S transfer to byp	/pass aft bass imn	nediately when the utilit	y is norma l			
35°C <ambient Temp.<40°C</ambient 			>150%:UF 105%~110%: U 110%~130%: U	S transfer to byp JPS transfer to b PS transfer to by	pass aff pass imn pypass a pass aff	nediately when the utilit fter 1 minute when the er 5 seconds when th	y is normal utility is normal e utility is normal			
			>150%:UF 105%~110%: U 110%~130%: U	S transfer to byp JPS transfer to b PS transfer to by S transfer to byp	rpass aff bass imn bypass a rpass aff bass imn	nediately when the utilit fter 1 minute when the er 5 seconds when th nediately when the utilit	y is normal utility is normal e utility is normal			
			>150%:UF 105%~110%: U 110%~130%: U >130%:UF	S transfer to byp JPS transfer to b PS transfer to byp S transfer to byp Ho	vpass aff bass imn bypass a vpass aff bass imn bild whole	nediately when the utilit fter 1 minute when the er 5 seconds when th nediately when the utilit system	y is normal utility is normal e utility is normal y is normal			
			>150%:UF 105%~110%: U 110%~130%: U >130%:UF	S transfer to byp JPS transfer to b PS transfer to by S transfer to byp Ho witch to bypass;	rpass affoass imn bypass a rpass affoass imn bld whole Backup	nediately when the utilifeter 1 minute when the er 5 seconds when the nediately when the utilifeters. System mode: Shut down UPs	y is normal utility is normal e utility is normal y is normal			
Temp.<40℃			>150%:UF 105%~110%: U 110%~130%: U >130%:UF	S transfer to byp JPS transfer to b PS transfer to by S transfer to byp Ho witch to bypass; Alar	rpass aft pass imn pypass a rpass aft pass imn old whole Backup irm and s	nediately when the utilifter 1 minute when the er 5 seconds when the hediately when the utilifers system mode: Shut down UPswitch off	y is normal utility is normal e utility is normal y is normal			
Temp.<40℃			>150%:UF 105%~110%: U 110%~130%: U >130%:UF Line mode: S	S transfer to byp JPS transfer to b PS transfer to by S transfer to byp Ho witch to bypass; Alar Shut do	rpass afficass imnoppass afficass imnoppass afficass imnopld whole Backup imm and sown UPS	nediately when the utility filer 1 minute when the er 5 seconds when the ediately when the utility esystem mode: Shut down UPS switch off 6 immediately	y is normal utility is normal e utility is normal ry is normal sy is normal			
Temp.<40°C			>150%:UF 105%~110%: U 110%~130%: U >130%:UF Line mode: S	S transfer to byp JPS transfer to by PS transfer to by) S transfer to byp Ho witch to bypass; Alar Shut dc Line fallure, Batte	ypass affoass imnopypass affoass affoass imnobld whole Backupurm and sown UPS	nediately when the utilifer 1 minute when the er 5 seconds when the ediately when the utilifer system mode: Shut down UPS switch off 6 immediately Over load, System faul	y is normal utility is normal e utility is normal e utility is normal y is normal S immediately			
Temp.<40°C al alarms interface			>150%:UF 105%~110%: U 110%~130%: U >130%:UF Line mode: S	S transfer to byp JPS transfer to by PS transfer to by) S transfer to byp Ho witch to bypass; Alar Shut dc Line fallure, Batte	ypass affoass imnopypass affoass affoass imnobld whole Backupurm and sown UPS	nediately when the utility filer 1 minute when the er 5 seconds when the ediately when the utility esystem mode: Shut down UPS switch off 6 immediately	y is normal utility is normal e utility is normal e utility is normal y is normal S immediately			
Temp.<40°C al alarms interface utput PF 1.0)	144*209*293	144*200*309	>150%:UF 105%~110%: U 110%~130%: U >130%:UF Line mode: S	S transfer to byp JPS transfer to by PS transfer to by S transfer to byp Ho witch to bypass; Alar Shut dc Line fallure, Batte	pass afficass imposs a simposs afficass imposs a afficass afficass imposs amount of the same of the sa	nediately when the utilifter 1 minute when the er 5 seconds when the ediately when the utilifus system mode: Shut down UPS switch off 6 immediately Over load, System faul tional), Relay card(opti	y is normal utility is normal e utility is normal ey is normal y is normal S immediately t onal)	191*337	*460	
Temp.<40°C al alarms interface utput PF 1.0) H×D (mm)		144*209*399	>150%:UF 105%~110%: U 110%~130%: U >130%:UF Line mode: S USB	S transfer to byp JPS transfer to by PS transfer to by) S transfer to byp Ho witch to bypass; Alar Shut dc Line fallure, Batte , RS232, SNMP	pass afficass imposs a sypass afficass imposs afficass imposs afficass imposs i	nediately when the utilifter 1 minute when the er 5 seconds when the er 5 seconds when the ediately when the utilife system mode: Shut down UPs switch off 6 immediately Over load, System faul tional), Relay card(opti-	y is normal utility is normal e utility is normal e utility is normal y is normal S immediately t onal)	191*337		
al alarms in interface utput PF 1.0) H×D (mm) utput PF 0.8 or 0.9)	9.8	14.4	>150%:UF 105%~110%: U 110%-130%: U >130%:UF Line mode: S USE 144*209*293 4 4.1	S transfer to byp JPS transfer to by PS transfer to by S transfer to byp Ho witch to bypass; Alar Shut do Line failure, Batte , RS232, SNMP 144*209*309 191*3	pass afficass impopass a final pass afficass impopass afficass impold whole Backup arm and sown UPS ery low, card(op 27.1	nediately when the utilitifier 1 minute when the err 5 seconds when the lediately when the utilities system mode: Shut down UPS switch off 6 immediately Dover load, System faultional), Relay card(option 144*209*309 6.7 6.8	ty is normal utility is normal e utility is normal e utility is normal sy is normal Simmediately t onal) 191*337*460 27.6 32.8	7.3	7.4	
Temp.<40°C al alarms interface utput PF 1.0) H×D (mm) utput PF 0.8 or 0.9) H×D (mm)	9.8 144*209*293	14.4	>150%:UF 105%~110%: U 110%-130%: U >130%:UF Line mode: S USE 144*209*293 4 4.1 144*209*293	S transfer to byp JPS transfer to by PS transfer to by S transfer to byp Ho witch to bypass; Alar Shut dc Line failure, Batte , RS232, SNMP 144*209*309 191*3	pass afficass imnoppass afficass imnoppass afficass imnoppass afficass imnoble whole Backup imn and sown UPS ery low, card(op 337*460 27.1	nediately when the utility filer 1 minute when the er 5 seconds when the nediately when the utility system mode: Shut down UPS switch off 5 immediately Dover load, System faultional), Relay card(option 144*209*309 6.7 6.8	ty is normal utility is normal e utility is normal e utility is normal sy is normal Simmediately t onal) 191*337*460 27.6 32.8 191*337*460	7.3	7.4 7*460	
Temp.<40°C al alarms in interface utput PF 1.0) H×D (mm)) utput PF 0.8 or 0.9) H×D (mm))	9.8	14.4	>150%:UF 105%~110%: U 110%-130%: U >130%:UF Line mode: S USE 144*209*293 4 4.1	S transfer to byp JPS transfer to by PS transfer to by S transfer to byp Ho witch to bypass; Alar Shut dc Line failure, Batte , RS232, SNMP 144*209*309 191*3	pass afficass impopass a final pass afficass impopass afficass impold whole Backup arm and sown UPS ery low, card(op 27.1	nediately when the utilitifier 1 minute when the err 5 seconds when the lediately when the utilities system mode: Shut down UPS switch off 6 immediately Dover load, System faultional), Relay card(option 144*209*309 6.7 6.8	ty is normal utility is normal e utility is normal e utility is normal sy is normal Simmediately t onal) 191*337*460 27.6 32.8	7.3	7.4	
al alarms in interface utput PF 1.0) H×D (mm) utput PF 0.8 or 0.9) H×D (mm)) NT	9.8 144*209*293	14.4	>150%:UF 105%~110%: U 110%-130%: U >130%:UF Line mode: S USE 144*209*293 4 4.1 144*209*293	S transfer to byp JPS transfer to by PS transfer to by S transfer to byp Ho witch to bypass; Alar Shut dc Line failure, Batte , RS232, SNMP 144*209*309 191*3	pass afficass immovers afficass immoved as afficass immoved as a suppass afficas and a suppass affication and a suppass afficient and a	nediately when the utilitifier 1 minute when the err 5 seconds when the learner 5 seconds when the learner 5 seconds when the utilities system 1 mode: Shut down UPS witch off 5 immediately 1 mmediately 1 mmediatel	ty is normal utility is normal e utility is normal e utility is normal sy is normal Simmediately t onal) 191*337*460 27.6 32.8 191*337*460	7.3	7.4 7*460	
Temp.<40°C al alarms in interface utput PF 1.0) H×D (mm) utput PF 0.8 or 0.9) H×D (mm) NT perature	9.8 144*209*293	14.4	>150%:UF 105%~110%: U 110%-130%: U >130%:UF Line mode: S USE 144*209*293 4 4.1 144*209*293	S transfer to byp JPS transfer to by PS transfer to by PS transfer to byp Ho witch to bypass; Alar Shut dc Line failure, Batte , RS232, SNMP 144*209*309 191*3 17 2 144*209*309 191*3	pass afficass immovers afficass afficas	nediately when the utility fiter 1 minute when the err 5 seconds when the nediately when the utility system mode: Shut down UPS switch off 6 immediately Dver load, System faultional), Relay card(optional), Relay card(opt	ty is normal utility is normal e utility is normal e utility is normal sy is normal Simmediately t onal) 191*337*460 27.6 32.8 191*337*460	7.3	7.4 7*460	
Temp.<40°C al alarms in interface utput PF 1.0) H × D (mm) utput PF 0.8 or 0.9) H × D (mm)) NT perature rature	9.8 144*209*293	14.4	>150%:UF 105%~110%: U 110%-130%: U >130%:UF Line mode: S USE 144*209*293 4 4.1 144*209*293	S transfer to byp JPS transfer to by PS transfer to by PS transfer to byp Ho witch to bypass; Alar Shut dc Line failure, Batte , RS232, SNMP 144*209*309 191*3 17 2 144*209*309 191*3	pass affi ass imn bypass a pass imn bld whole Backup im and s bwn UPS ery low, card(op 27.1 337*460 27.1 0~4(−25℃	nediately when the utilifer 1 minute when the err 5 seconds when the responsibility of the thing of the system mode: Shut down UPS switch off 6 immediately Dver load, System faultional), Relay card(optional), Relay card(ty is normal utility is normal e utility is normal e utility is normal sy is normal Simmediately t onal) 191*337*460 27.6 32.8 191*337*460	7.3	7.4 7*460	
Temp.<40°C al alarms in interface utput PF 1.0) H×D (mm) utput PF 0.8 or 0.9) H×D (mm) NT perature	9.8 144*209*293	14.4	>150%:UF 105%~110%: U 110%-130%: U >130%:UF Line mode: S USE 144*209*293 4 4.1 144*209*293	S transfer to byp JPS transfer to by PS transfer to by PS transfer to byp Ho witch to bypass; Alar Shut dc Line failure, Batte , RS232, SNMP 144*209*309 191*3 17 2 144*209*309 191*3	pass affiass imnospens affiass imnospens affiass amount of the second of	nediately when the utility fiter 1 minute when the err 5 seconds when the respective of the properties	ty is normal utility is normal e utility is normal e utility is normal sy is normal Simmediately t onal) 191*337*460 27.6 32.8 191*337*460	7.3	7.4 7*460	
Temp.<40°C al alarms in interface utput PF 1.0) H × D (mm) utput PF 0.8 or 0.9) H × D (mm)) NT perature rature	9.8 144*209*293	14.4	>150%:UF 105%~110%: U 110%-130%: U >130%:UF Line mode: S USE 144*209*293 4 4.1 144*209*293	S transfer to byp JPS transfer to by PS transfer to by S transfer to byp Ho witch to bypass; Alar Shut dc Line fallure, Batte 1, RS232, SNMP 144*209*309 191*3 17 2 144*209*309 191*3 17 2	pass afficass immoss a pass immoss afficass immoss afficass immoss appears afficass immoss appears a pass immoss appears to pass a pass immoss appears to pass a pa	nediately when the utilife of the minute when the err 5 seconds when the err 5 seconds when the nediately when the utilife system mode: Shut down UPS switch off 6 immediately Diver load, System faultional), Relay card(optional), Relay card(op	ty is normal utility is normal e utility is normal e utility is normal sy is normal Simmediately t onal) 191*337*460 27.6 32.8 191*337*460	7.3	7.4 7*460	
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Temp.<40°C al alarms in interface utput PF 1.0) H × D (mm) utput PF 0.8 or 0.9) H × D (mm)) NT perature rature	9.8 144*209*293	14.4	>150%:UF 105%~110%: U 110%-130%: U >130%:UF Line mode: S USE 144*209*293 4 4.1 144*209*293	S transfer to byp JPS transfer to by PS transfer to by S transfer to byp Ho witch to bypass; Alar Shut do Line failure, Batte , RS232, SNMP 144*209*309 191*3 17 2 20~90% RH @ Less th	pass afficass imnospectations and solutions and solutions are solutions and solutions are solutions and solutions are solutions and solutions are solutions are solutions and solutions are solutions.	nediately when the utilife of the minute when the err 5 seconds when the err 5 seconds when the nediately when the utilife system mode: Shut down UPS switch off 6 immediately Diver load, System faultional), Relay card(optional), Relay card(op	ty is normal utility is normal e utility is normal e utility is normal sy is normal Simmediately t onal) 191*337*460 27.6 32.8 191*337*460	7.3	7.4 7*460	
R L III	Low voltage of transferring to bypass Low threshold voltage of recovering from bypass High voltage of transferring to bypass High voltage of transferring to bypass High threshold voltage of recovering from bypass ange lency range tition Line mode (Synchronized range) Bat. mode AC mode <->Batt. Mode Inverter <-> Bypass time(Standard mode) ge int(max.) TURES	Low voltage of transferring to bypass Low threshold voltage of recovering from bypass High voltage of transferring to bypass High voltage of transferring to bypass High threshold voltage of recovering from bypass ange lency range tion Line mode (Synchronized range) Bat. mode AC mode <->Batt. Mode Inverter <-> Bypass 12V 2 time(Standard mode) len 27.4VDC±1% Interest	Low voltage of 160Vac±5% @100%- 175Vac±5% @	Low voltage of transferring to bypass 160Vac±5% @100%~80%bad 140Vac±5% @ 100%~80%bad 140Vac±5% @ 175Vac±5% @100%~80%bad 155Vac±5% @ 100%~80%bad 155Vac±5% @ 100%~100%bad 155Vac±5% @ 100%bad 155Vac±5% @ 155Vac±5% @ 100%bad 155Vac±5% @ 155	Comparison Com	Single phase 200/208/220/2	Single phase with ground	Single phase with ground 200/208/220/230/240Vac	Single phase with ground 200/208/220/230/240/4c	

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

UDC-RT 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 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: 200,208,220,230,240 Vac
- Low priority load disconnection function
- 8 minutes backup time standard units are optional



Battery Cabinets. (Optional)



3U for 3KVA standard unit



Colourful LCD



Gray LCD



Blue LCD

3 kinds of LCD can be selected



The LCD panel can be rotated



SNMP

Relay card