UDC SERIES

1000~3000VA

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

Control Panel
Up to 50 items set by LCD

Battery Cabinets.
(Optional)

Optimized battery
configuration
1k:24Vdc,2k:48Vdc,
3k:72Vdc

Technical Specifications:

MODEL		UDC9101S / UDC9101H	UDC9102S / UDC9102H	UDC9103S / UDC9103H
Phase		Single phase with ground		
Capacity (VA/Watts)		1000VA / 900W	2000VA / 1800W	3000VA / 2700W
INPUT				
Nominal voltage		200/208/220/230/240Vac		
Operating voltage range	Lower limit of input voltage	160Vac±5% @100%~80%load / 140Vac±5% @80%~70%load / 120Vac±5% @70%~60%load / 110Vac±5% @60%~0%load (Ambient temp. <35℃)		
	Lower limit of input voltage	175Vac±5% @100%~80%load / 155Vac±5% @80%~70%load / 135Vac±5% @70%~60%load / 125Vac±5% @60%~0%load (Ambient temp. <35℃)		
	Upper limit of input voltage	300Vac±5%		
	Upper comeback voltage from bypass mode to normal mode	290Vac±5%		
Operating frequency range		40~70Hz		
Power factor		0.99		
Generator input		Support		
OUTPUT				
Output voltage		200/208/220/230/240Vac		
Power factor		0.9		
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)		≤3% THD with linear load / ≤6% THD with non linear load		
Waveform		Pure sinewave		
Transfer time	AC mode <->Batt. mode	Zero		
	Inverter <-> Bypass	4ms(Typical)		
Efficiency	Line mode	88%	92%	92%
	Batt mode	85% / 86%	87% / 88%	89% / 90%
BATTERY				
Battery type		12V9AH / Depends on the capacity of external batteries	12V9AH / Depends on the capacity of external batteries	12V9AH / Depends on the capacity of external batteries
Numbers		2 / 2 / 3	4 / 4 / 6	6 / 6 / 8
Backup time		Long run unit depends on the capacity of external batteries		
Typical recharging time (Standard modle)		4 hours recover to 90% capacity (Typical)		
Charging voltage		27.4Vdc±1% / 27.4Vdc±1% / 41.0Vdc±1%	54.7Vdc±1% / 54.7Vdc±1% / 82.1Vdc±1%	82.1Vdc±1% / 82.1Vdc±1% / 109.4Vdc±1%
Charging current 1A		12A max,can be set by LCD / 1A	12A max,can be set by LCD / 1A	12A max,can be set by LCD
SYSTEM FEATURES				
Line mode Battery mode	Ambient temp.<35℃	105%~110%: UPS shuts down after 10 minutes at battery mode or transfer to bypass when the utility is normal / 110%~130%: UPS shuts down after 1minute at battery mode or transfer to bypass when the utility is normal / >130%:UPS shuts down after 3 seconds at battery mode or transfer to bypass when the utility is normal		
	35℃<ambient Temp.<40℃	105%~110%: UPS shuts down after 1 minutes at battery mode or transfer to bypass when the utility is normal / >110%:UPS shuts down after 3 seconds at battery mode or transfer to bypass 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 (or RS232), SNMP card (optional), Relay card (optional)		
ENVIRONMENT				
Operating temperature		0~40℃		
Storage temperature		-25℃~55℃		
Humidity range		20~90% RH @ 0~40℃ (Non-condensing)		
Altitude		<1500m		
Noise level		Less than 50dBA @ 1 Meter		
PHYSICAL				
Dimension W×H×D (mm)		144×209×293 / 144×209×293 / 144×209×293	144×209×399 / 144×209×399 / 144×209×399	191×337×460 / 144×209×399 / 144×209×399
Net weight (kg)		9.8 / 4 / 4.1	17 / 6.7 / 6.8	27.6 / 7.3 / 7.4
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		

* Derate to 80% of capacity when the output voltage is adjusted to 200/208Vac

** Product specifications are subject to change without further notice.