

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 Phase | | UDC9 | 101S / UDC9101H | | 9102S / UDC9102H le phase with ground | UDCS | 9103S / UDO | C9103H | |
|--|---|--|---|---|--|---|--------------------|--------------------------------|--|
| Capacity (VA/V | Vatts) | 1 | 000VA / 900W | | 2000VA / 1800W | <u> </u> | 3000VA / 2700 |)\/\/ | |
| INPUT | | ' | 000 v A 7 300 v v | | 2000 VA / 1000 VV | , | 3000 VA / 2 / 0C | · v · v | |
| Nominal voltage | Α. | | | 200/ | 208/220/230/240Vac | | | | |
| rvormila voltage | Ĭ | | | | ±5% @100%~80%load | | | | |
| | | | | | ±5% @80%~70%load | | | | |
| | Lower limit of | | | | ±5% @70%~60%load | | | | |
| | input voltage | | | | _ | | | | |
| | | | | | c ± 5% @60%~0%load | | | | |
| Departing | | | | | nbient temp. <35°C) | | | | |
| | | | | | ±5% @100%~80%load | | | | |
| voltage range | Lower limit of | | | | :±5% @80%~70%load | | | | |
| | input voltage | 135Vac±5% @70%~60%load | | | | | | | |
| | | | | 125Va | c ± 5% @60%~0%load | | | | |
| | | | | nbient temp. <35℃) | | | | | |
| | Upper limit of input voltage | | | | 300Vac±5% | | | | |
| | Upper comeback voltage | | | | | | | | |
| | from bypass mode to | | | | 290Vac±5% | | | | |
| | normal mode | | | | | | | | |
| Operating frequency range | | | | | 40~70Hz | | | | |
| Power factor | | | | | 0.99 | | | | |
| Generator input | | | | | Support | | | | |
| OUTPUT | | | | | Support | | | | |
| | | | | 200 | 200/220/220/240/4- | | | | |
| Output voltage | | | | 200/ | 208/220/230/240Vac | | | | |
| Power factor | | | | | 0.9 | | | | |
| Voltage regulation | | | | | ±1% | | | | |
| | Line mode | | | 47 | ~53Hz or 57~63Hz | | | | |
| Frequency | (Synchronized range) | | | 47 | -55112 01 57 -05112 | | | | |
| Bat. mode | | | | | $(50/60 \pm 0.1)$ Hz | | | | |
| Crest factor | | 3:1 | | | | | | | |
| Harmonic distortion (THDv) Waveform | | ≤3% THD with linear load | | | | | | | |
| | | ≤6% THD with non linear load | | | | | | | |
| | | Pure sinewave | | | | | | | |
| | AC mode <->Batt. mode | Zero | | | | | | | |
| Transfer time | Inverter <-> Bypass | 4ms(Typical) | | | | | | | |
| | Line mode | 88% 92% 92% | | | | | | | |
| Efficiency | Batt mode | 85% | 86% | 87% | | 89% | 32 /0 | 90% | |
| BATTERY | Battinode | 0576 | 0076 | 0770 | 00 /0 | 0970 | | 90 /6 | |
| DATIERI | | | | 1 | | | I | | |
| Battery type | | 12V9AH | Depends on the capacity of external batteries | 12V9AH | Depends on the capa of external batteries | | | n the capacity al batteries | |
| N.I. I | | | 1 | | | | | | |
| Numbers | | 2 | 2 3 | 4 | 4 6 | 6 | 6 | 8 | |
| Backup time | | | Long | | ds on the capacity of exte | | | | |
| Typical recharging time (Standard modle) | | | | | s recover to 90% capaci | | | | |
| Charging voltage | | 27.4Vdc±1% | | | | | | 109.4Vdc±1 | |
| Charging curre | nt 1A 12A m | ax,can be set b | y LCD 1A 12A | max,can be set | dy LCD 1A 12 | A max,can be set l | dy LCD | | |
| SYSTEM FEA | TURES | | | | | | | | |
| | | 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 | | | | | | | |
| Line mode | Ambient temp.<35℃ | | | | | | | | |
| | | | | | | | | | |
| Dallel A WOOG | | 105%-110%: UPS shuts down after 1 minutes at battery mode or transfer to bypass when the utility is normal | | | | | | | |
| рацегу тоде | 35℃ <ambient< td=""><td>1059</td><td>%~110%: UPS shuts down</td><td></td><td>at battery mode or trans</td><td>fer to bypass when</td><td>n the utility is n</td><td>ormal</td></ambient<> | 1059 | %~110%: UPS shuts down | | at battery mode or trans | fer to bypass when | n the utility is n | ormal | |
| • | 35℃ <ambient< td=""><td></td><td></td><td>after 1 minutes</td><td></td><td>fer to bypass wher</td><td>n the utility is n</td><td></td></ambient<> | | | after 1 minutes | | fer to bypass wher | n the utility is n | | |
| Temp.<40℃ | 35℃ <ambient >110%:UPS shuts down at</ambient | | | after 1 minutes to bypass whe | n the utility is normal | fer to bypass wher | n the utility is n | ormal Sho | |
| Temp.<40℃ circuit | | | at battery mode or transfe | after 1 minutes to bypass whe | n the utility is normal old whole system | | | | |
| Temp.<40℃ circuit Overheat | | | at battery mode or transfe | after 1 minutes to bypass whe H witch to bypass | n the utility is normal old whole system ; Backup mode: Shut do | | | | |
| Temp.<40°C circuit Overheat Battery low | | | at battery mode or transfe | after 1 minutes to bypass whe witch to bypass Al | n the utility is normal old whole system ; Backup mode: Shut do arm and switch off | | | | |
| Temp.<40°C circuit Overheat Battery low EPO (optional) | >110%:UPS shuts down at | | at battery mode or transfer Line mode: S | after 1 minutes to bypass whe witch to bypass Al Shut c | n the utility is normal old whole system ; Backup mode: Shut do arm and switch off lown UPS immediately | wn UPS immediate | | | |
| Temp.<40°C circuit Overheat Battery low EPO (optional) Audible & Visua | >110%:UPS shuts down at | | at battery mode or transfer Line mode: S | after 1 minutes to bypass whe witch to bypass Al Shut c | n the utility is normal old whole system ; Backup mode: Shut do arm and switch off lown UPS immediately ery low, Over load, Syst | wn UPS immediate em fault | | | |
| Temp.<40°C circuit Overheat Battery low EPO (optional) Audible & Visua | >110%:UPS shuts down at | | at battery mode or transfer Line mode: S | after 1 minutes to bypass whe witch to bypass Al Shut c | n the utility is normal old whole system ; Backup mode: Shut do arm and switch off lown UPS immediately | wn UPS immediate em fault | | | |
| Temp.<40°C circuit Overheat Battery low EPO (optional) Audible & Visua Communication | >110%:UPS shuts down at | | at battery mode or transfer Line mode: S | after 1 minutes to bypass whe witch to bypass Al Shut c | n the utility is normal old whole system ; Backup mode: Shut do arm and switch off lown UPS immediately ery low, Over load, Syst | wn UPS immediate em fault | | | |
| Temp.<40°C circuit Overheat Battery low EPO (optional) Audible & Visua Communicatior ENVIRONMEI | >110%:UPS shuts down at all alarms an interface | | at battery mode or transfer Line mode: S | after 1 minutes to bypass whe witch to bypass Al Shut c | n the utility is normal old whole system ; Backup mode: Shut do arm and switch off lown UPS immediately ery low, Over load, Syst | wn UPS immediate em fault | | | |
| Temp.<40°C circuit Overheat Battery low EPO (optional) Audible & Visua Communication ENVIRONMEI Operating temp | >110%:UPS shuts down at all alarms interface NT perature | | at battery mode or transfer Line mode: S | after 1 minutes to bypass whe witch to bypass Al Shut c | n the utility is normal old whole system ; Backup mode: Shut do arm and switch off lown UPS immediately ery low, Over load, Syst P card (optional), Relay | wn UPS immediate em fault | | | |
| Temp.<40°C circuit Overheat Battery low EPO (optional) Audible & Visua Communicatior ENVIRONMEI Operating tempe | >110%:UPS shuts down at all alarms an interface NT perature rature | | at battery mode or transfer Line mode: S | after 1 minutes to bypass whe witch to bypass Al Shut c Line failure, Batt | n the utility is normal old whole system; Backup mode: Shut do arm and switch off lown UPS immediately erry low, Over load, Syst P card (optional), Relay 0~40°C | wn UPS immediate em fault card (optional) | | | |
| Temp. <40°C circuit Overheat Battery low EPO (optional) Audible & Visua Communicatior ENVIRONMEI Operating tempe Humidity range | >110%:UPS shuts down at all alarms an interface NT perature rature | | at battery mode or transfer Line mode: S | after 1 minutes to bypass whe witch to bypass Al Shut c Line failure, Batt | n the utility is normal old whole system; Backup mode: Shut do arm and switch off lown UPS immediately ery low, Over load, Syst P card (optional), Relay 0~40°C -25°C ~55°C @ 0~40°C (Non-conden | wn UPS immediate em fault card (optional) | | | |
| Temp. < 40°C circuit Overheat Battery low EPO (optional) Audible & Visua Communication ENVIRONMEI Operating temp. Storage tempes Humidity range Altitude | >110%:UPS shuts down at all alarms an interface NT perature rature | | at battery mode or transfer Line mode: S | after 1 minutes to bypass whe witch to bypass Al Shut c Line failure, Batt or RS232), SNM | n the utility is normal old whole system; Backup mode: Shut do arm and switch off lown UPS immediately ery low, Over load, Syst. P card (optional), Relay 0~40°C -25°C ~55°C @ 0~40°C (Non-conden | wn UPS immediate em fault card (optional) | | | |
| Temp.<40°C circuit Overheat Battery low EPO (optional) Audible & Visue Communicatior ENVIRONME! Operating tempe Humidity range Altitude Noise level | >110%:UPS shuts down at all alarms an interface NT perature rature | | at battery mode or transfer Line mode: S | after 1 minutes to bypass whe witch to bypass Al Shut c Line failure, Batt or RS232), SNM | n the utility is normal old whole system; Backup mode: Shut do arm and switch off lown UPS immediately ery low, Over load, Syst P card (optional), Relay 0~40°C -25°C ~55°C @ 0~40°C (Non-conden | wn UPS immediate em fault card (optional) | | | |
| Temp.<40°C circuit Overheat Battery low EPO (optional) Audible & Visua Communication ENVIRONMEI Operating temps Storage temper Humidity range Altitude Noise level PHYSICAL | >110%:UPS shuts down at | er 3 seconds | at battery mode or transfer Line mode: S USB (c | after 1 minutes to bypass whe witch to bypass Al Shut o Line failure, Batt or RS232), SNM | n the utility is normal old whole system; Backup mode: Shut do arm and switch off lown UPS immediately ery low, Over load, Syst. P card (optional), Relay 0 ~ 40°C -25°C ~ 55°C @ 0~40°C (Non-conden <1500m han 50dBA @ 1 Meter | wn UPS immediate em fault card (optional) sing) | ely | Sho | |
| Temp.<40°C circuit Overheat Battery low EPO (optional) Audible & Visua Communication ENVIRONMEI Operating temper Humidity range Altitude Noise level PHYSICAL Dimension W × | >110%:UPS shuts down at | er 3 seconds | at battery mode or transfer Line mode: S USB (c | after 1 minutes to bypass whe witch to bypass Al Shut o Line failure, Batt or RS232), SNM 20-90% RH Less t | n the utility is normal old whole system; Backup mode: Shut do arm and switch off lown UPS immediately ery low, Over load, Syst P card (optional), Relay 0 ~ 40°C -25°C ~ 55°C @ 0 ~ 40°C (Non-conden <1500m han 50dBA @ 1 Meter | wn UPS immediate em fault card (optional) sing) | 144×209×398 | Shc | |
| Temp.<40°C circuit Overheat Battery low EPO (optional) Audible & Visua Communication ENVIRONMEI Operating tempe Humidity range Altitude Noise level PHYSICAL Dimension W × Net weight (kg) | >110%:UPS shuts down at | er 3 seconds | at battery mode or transfer Line mode: S USB (c | after 1 minutes to bypass whe witch to bypass Al Shut o Line failure, Batt or RS232), SNM | n the utility is normal old whole system; Backup mode: Shut do arm and switch off lown UPS immediately ery low, Over load, Syst. P card (optional), Relay 0 ~ 40°C -25°C ~ 55°C @ 0~40°C (Non-conden <1500m han 50dBA @ 1 Meter | wn UPS immediate em fault card (optional) sing) | ely | Sho | |
| Temp.<40°C circuit Overheat Battery low EPO (optional) Audible & Visua Communicatior ENVIRONMEI Operating temper Humidity range Altitude Noise level PHYSICAL Dimension W× Net weight (kg) STANDARDS | >110%:UPS shuts down at | er 3 seconds | at battery mode or transfer Line mode: S USB (c | after 1 minutes r to bypass whe witch to bypass Al Shut c Line failure, Batt or RS232), SNM 20~90% RH Less t 17 | n the utility is normal old whole system; Backup mode: Shut do arm and switch off lown UPS immediately ery low, Over load, System of a continuation of the continuatio | wn UPS immediate em fault card (optional) sing) 1399 191×337×460 27.6 | 144×209×398 | Shc | |
| Overheat Battery low EPO (optional) Audible & Visue Communication ENVIRONME! Operating tempe Storage temper Humidity range Altitude Noise level PHYSICAL Dimension W × Net weight (kg) | >110%:UPS shuts down at | er 3 seconds | at battery mode or transfer Line mode: S USB (c) 144 × 209 × 293 144 × 209 × 294 4.1 | after 1 minutes r to bypass whe witch to bypass Al Shut c Line failure, Batt or RS232), SNM 20~90% RH Less t 33 144 × 209 × 399 17 IEC/EN6 | n the utility is normal old whole system; Backup mode: Shut do arm and switch off lown UPS immediately lery low, Over load, System of the control of the con | wn UPS immediate em fault card (optional) sing) 99 91×337×460 27.6 | 144×209×398 | Shc | |
| Temp.<40°C circuit Overheat Battery low EPO (optional) Audible & Visua Communication ENVIRONMEI Operating temp. Storage temper Humidity range Altitude Noise level PHYSICAL Dimension W× Net weight (kg) STANDARDS | >110%:UPS shuts down at | er 3 seconds | at battery mode or transfer Line mode: S USB (c) 144 × 209 × 293 144 × 209 × 294 4.1 | after 1 minutes r to bypass whe F witch to bypass Al Shut c Line failure, Batt or RS232), SNM 20–90% RH Less t 33 144×209×399 17 IEC/ENt 2040-2,IEC6100 | n the utility is normal old whole system; Backup mode: Shut do arm and switch off lown UPS immediately ery low, Over load, System of a continuation of the continuatio | wn UPS immediate em fault card (optional) sing) 399 191×337×460 27.6 1 EC61000-4-4, | 144×209×398 | Shc | |

 $^{^{\}star}$ Derate to 80% of capacity when the output voltage is adjusted to 200/208Vac ** Product specifications are subject to change without further notice.