



Features

- True double-conversion
- maximum 12A charger for long-run models
- Input power factor correction 0.99
- Charger current can be setting by LCD
- 50Hz/60Hz frequency converter mode
- Selectable output voltage: 200,208,220,230,240Vac
- Eco mode operation for energy saving (ECO)
- SNMP / USB / RS232 multiple communications
- Output Power Factor 0.9
- Generator compatible
- Wide input voltage range (110~300 Vac)
- Emergency power off function (EPO)
- Smart battery charger design for optimized battery performance



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 | |
|---------------------------------------|--|--|--------------------------------|-----|
| PHASE | Single phase with ground | | | |
| Capacity (VA/Watts) | 1000VA / 900W | | | |
| INPUT | | | | |
| Nominal voltage | 200/208/220/230/240Vac | | | |
| Operating voltage range | Low line transfer | 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 line transfer | 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 line transfer | 300Vac ± 5% | | |
| | High line comeback | 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 | 3:01 | | | |
| Harmonic distortion (THDv) | ≤3% THDwith 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% | | |
| | Batt mode | 85% | | 86% |
| BATTERY | | | | |
| Battery Type | 12V9AH | depends on the capacity of external batteries | | |
| Numbers | 2 | 2 | 3 | |
| Backup time | Long run unit depends on the capacity of external batteries | | | |
| Typical recharge time(standard modle) | 4 hours recover to 90% capacity (Typical) | | | |
| Charging voltage | 27.4 Vdc ± 1% 27.4 Vdc ± 1% | | 41.0 Vdc ± 1% | |
| Charge current | 1A | | 12A max, can be setting by LCD | |
| SYSTEM FEATURES | | | | |
| Line Mode | Ambient Temp.<35°C | 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°C<Ambient Temp.<40°C | 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 | | | |
| Low battery voltage | Alarm and Switch off | | | |
| EPO (optional) | Shut down UPS immediately | | | |
| Audible & Visual alarms | Line Failure, Battery Low, Overload, System Fault | | | |
| Communication interface | USB(or RS232), SNMPcard(optional), Relay card (optional) | | | |
| ENVIRONMENTAL | | | | |
| 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 @ 1 Meter | | | |
| PHYSICAL | | | | |
| Dimension W × H × D (mm) | 144 × 209 × 293 | | 144 × 209 × 293 | |
| Net Weight (kg) | 9.8 | | 4.1 | |
| STANDARDS | | | | |
| Safety | IEC/EN62040-1,IEC/EN60950-1 IEC/EN62040-2,IEC61000-4-2,IEC61000-4-3,IEC61000-4-4, IEC61000-4-5,IEC61000-4-6,IEC61000-4-8 | | | |