

UDC Series



Features

- True double-conversion
- Wide input voltage range (110~300 Vac)
- Input power factor correction 0.99
- Output Power Factor 0.9
- maximum 12A charger for long-run models
- Charger current can be setting 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 charger 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

Stock code 002518

KSTAR

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	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%				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 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%	54.7 Vdc ± 1%	54.7 Vdc ± 1%	82.1 Vdc ± 1%	82.1 Vdc ± 1%	82.1 Vdc ± 1%	109.4 Vdc ± 1%			
Charge current	1A	12A max, can be setting by LCD			1A	12A max, can be setting by LCD			1A	12A max, can be setting by LCD		
SYSTEM FEATURES												
Line Mode Battery 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	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.