



### 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



## Technical Specifications:

MODEL	UDC9101S			UDC9101H			UDC9102S			UDC9102H			UDC9103S			UDC9103H												
PHASE	Single phase with ground																											
Capacity (VA/Watts)	1000VA / 900W						2000VA / 1800W						3000VA / 2700W															
<b>INPUT</b>																												
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%																									
			40~70Hz																									
Operating frequency range																												
Power factor																												
0.99																												
Generator input																												
Support																												
<b>OUTPUT</b>																												
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%			86%			87%			88%			89%			92%										
	Batt mode		85%			86%			87%			88%			89%			90%										
<b>BATTERY</b>																												
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 mode)		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%			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											
<b>SYSTEM FEATURES</b>																												
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																									
Battery Mode																												
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)																										
<b>ENVIRONMENTAL</b>																												
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																										
<b>PHYSICAL</b>																												
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		
<b>STANDARDS</b>																												
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.