

UMC SERIES

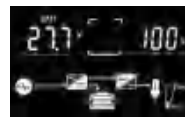
1~3kVA

1:1 phase PF: 1.0 (PF0.9, 0.8 Optional)

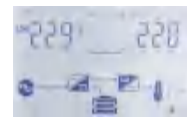


Features

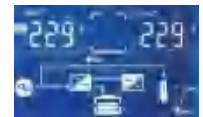
- Online double conversion
- Wide input voltage range (110~300Vac)
- Input power factor 0.99 (With PFC)
- Output power factor 0.9
- Maximum charging current 12A (Long run unit)
- Charging current can be set by LCD
- 50Hz/60Hz frequency converter mode
- Emergency power off function (EPO)
- Eco mode operation 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
- Low priority load disconnection function
- Smart battery charging design for optimizing battery performance
- 1A or 2A charging current can be selected 2A charging current is for 2 groups of inside batteries



Colourful LCD



Gray LCD



Blue LCD

3 kinds of LCD can be selected



Battery Cabinets.
(Optional)



Relay card



SNMP

Technical Specifications:

MODEL	UMC9101S One	UMC9101H One	UMC9102S One	UMC9102H One	UMC9103S One	UMC9103H One						
Capacity (VA/Watts)	1000VA / 1000W		2000VA / 2000W		3000VA / 3000W							
Phase	Single phase with ground											
INPUT												
Nominal Voltage	200/208/220/230/240Vac											
Operating voltage range	Low voltage of transferring to bypass	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 threshold voltage of recovering from bypass	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 voltage of transferring to bypass	300Vac ± 5%										
	High threshold voltage of recovering from bypass	290Vac ± 5%										
Input Voltage Range	55~150Vac or 110~300Vac @ 60% load, 80~145Vac or 160~300Vac @ 100% load											
Operating frequency range	40~70Hz											
Power Factor	0.99											
Generator input	Support											
OUTPUT												
Output Voltage	200/208/220/230/240Vac											
Power Factor	1.0											
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)	≤2% THD (Linear load) ≤4% THD (Non-linear load)											
Waveform	Pure Sinewave											
Transfer Time	AC mode <-> Batt. Mode	Zero										
	Inverter <-> Bypass	4ms(Typical)										
EFFICIENCY												
AC Mode	88%			92%			92%					
Battery Mode	85%	86%	85%	86%	87%	88%	87%	88%	89%	90%	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	3	2	3	4	6	4	6	6	8	6	8
Backup time	Long run unit depends on the capacity of external batteries											
Typical recharging time(Standard mode)	4 hours recover to 90% capacity											
Charging voltage	27.4Vdc±1%	41.1Vdc±1%	27.4Vdc±1%	41.1Vdc±1%	54.7Vdc±1%	82.1Vdc±1%	54.7Vdc±1%	82.1Vdc±1%	82.1Vdc±1%	109.4Vdc±1%	82.1Vdc±1%	109.4Vdc±1%
Charging current(max.)	1A / 2A		12A max, can be set by LCD		1A / 2A		12A max, can be set by LCD		1A / 2A		12A max, can be set by LCD	
SYSTEM FEATURES												
Line mode Battery mode	Ambient temp.<35°C	105%~110%: UPS transfer to bypass after 10 minutes when the utility is normal 110%~130%: UPS transfer to bypass after 1 minute when the utility is normal 130%~150%: UPS transfer to bypass after 5 seconds when the utility is normal >150%: UPS transfer to bypass immediately when the utility is normal										
	35°C < ambient Temp. <40°C	105%~110%: UPS transfer to bypass after 1 minute when the utility is normal 110%~130%: UPS transfer to bypass after 5 seconds when the utility is normal >130%: UPS transfer to bypass immediately 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, RS232, SNMP card(optional), Relay card(optional) RJ45, Smart Slot											
PHYSICAL(Output PF 1.0)												
Dimension W × H × D (mm)	144*209*293	144*209*399	144*209*293	144*209*309	191*337*460	144*209*309	191*337*460	144*209*309	191*337*460	144*209*309	191*337*460	144*209*309
Net Weight (kg)	9.8	14.4	4	4.1	17	27.1	6.7	6.8	27.6	32.8	7.3	7.4
PHYSICAL(Output PF 0.8 or 0.9)												
Dimension W × H × D (mm)	144*209*293	144*209*399	144*209*293	144*209*309	191*337*460	144*209*309	191*337*460	144*209*309	191*337*460	144*209*309	191*337*460	144*209*309
Net Weight (kg)	9.8	14.4	4	4.1	17	27.1	6.7	6.8	27.6	32.8	7.3	7.4
ENVIRONMENT												
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 at 1 Meter											
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											

NOTE: Parameters of battery pack of UMC1-3K is in page 6

8 minutes backup time standard units

MODEL	UMC9101S-RT (UPS)	UMC9102S-RT (UPS+EBP)	UMC9103S-RT (UPS+EBP)		
Capacity (VA/Watts)	1000VA / 900W	2000VA / 1800W	3000VA / 2700W		
Phase	Single phase with ground				
BATTERY					
Battery Type	12V9AH-9S	12V9AH	12V9AH		
Numbers	4	8	12		
Backup time	8mins				
Typical recharging time(Standard mode)	8 hours recover to 90% capacity				
Charging voltage	27.4VDC ± 1%	54.7Vdc ± 1%	82.1Vdc ± 1%		
Charging current(max.)	1A / 2A	1A / 2A	1A / 2A		
PHYSICAL					
Dimension W × D × H (mm)	440*430*86.5	440*435*86.5(UPS)	440*435*86.5(EBP)	440*435*86.5 (UPS)	440*578*86.5(EBP)
Net Weight (kg)	18.2	9.2	26.7	9.8	34.7

System Specifications – UMC1–3K–RT

MODEL (Battery Pack)	UMC-BC24RT	UMC-BC36RT	UMC-BC48RT	UMC-BC72RT	UMC-BC96RT
Charger input	208/220/230/240VAC				
BATTERY SYSTEM					
Battery Type	Sealed, Maintenance Free, Value Regulated, Lead Acid				
Typical Recharge Time	6~8-hours (to 90% of full capacity)				
Typical Battery Life	3-5 years, depending on discharge cycles and ambient temp				
System Voltage	24VDC	36VDC	48VDC	72VDC	96VDC
Charging current (max)	1.4A				
Battery Quantity	4	6	8	12	8
Capacity (standard unit)	7Ah/9Ah(12V)				
Battery Cable Type	Premolded #12AWG				
ENVIRONMENTAL					
Operating Temperature (max)	0 to 40° C				
Operating/Storage Humidity	0-90% Non-Condensing				
PHYSICAL					
Size - Net W X D X H (mm)	440*430*86.5	440*430*86.5	440*552*86.5	440*720*86.5	440*552*86.5
Weight - Net(kg)	17.4	22.5	28.5	41.1	28.5

System Specifications – UMC1–3K

MODEL (Battery Pack)	UMC-BC24T	UMC-BC36T	UMC-BC48T	UMC-BC72T	UMC-BC96T
Charger input	208/220/230/240VAC				
BATTERY SYSTEM					
Battery Type	Sealed, Maintenance Free, Value Regulated, Lead Acid				
Typical Recharge Time	6~8-hours (to 90% of full capacity)				
Typical Battery Life	3-5 years, depending on discharge cycles and ambient temp				
System Voltage	24VDC	36VDC	48VDC	72VDC	96VDC
Charging current (max)	1.4A				
Battery Quantity	4	6	8	12	16
Capacity (standard unit)	7Ah/9Ah(12V)				
Battery Cable Type	Premolded #12AWG				
ENVIRONMENTAL					
Operating Temperature (max)	0 to 40° C				
Operating/Storage Humidity	0-90% Non-Condensing				
PHYSICAL					
Size - Net W X D X H (mm)	144*209*399	144*209*399	191*337*460	191*337*460	191*337*460
Weight - Net(kg)	13.5	18.5	28.5	38.5	47.5