

UMC-RT SERIES

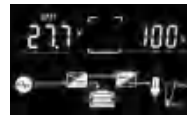
1~3kVA

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

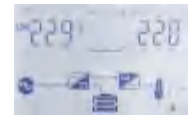


Features

- Online double conversion
- Wide input voltage range (110~300Vac)
- Input power factor 0.99 (With PFC)
- Output power factor 1.0
- Optional charging current 1A or 2A for standard unit, 2A charging current is for 2 groups of inside batteries.
- Maximum charging current 12A (Long run unit)
- Charging current can be set by LCD(Long run unit)
- 50Hz/60Hz frequency converter mode
- Emergency power off function (EPO)
- ECO mode operation for energy saving
- Generator compatible
- SNMP + USB + RS232 multiple communications
- Smart battery charging design for optimizing battery performance
- Support lithium battery and BMS
- Selectable output voltage: 200,208,220,230,240Vac
- Low priority load disconnection function
- 8 minutes backup time standard units are optional



Colourful LCD



Gray LCD



Blue LCD

3 kinds of LCD can be selected



Battery Cabinets.
(Optional)



The LCD panel can be rotated



SNMP



Relay card

Technical Specifications:

MODEL	UMC9101S-RT One	UMC9101H-RT One	UMC9102S-RT One	UMC9102H-RT One	UMC9103S-RT One	UMC9103H-RT One				
Capacity (VA/Watts)	1000VA / 1000W		2000VA / 2000W		3000VA / 3000W					
Phase	Single phase with ground with									
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%		88%		90%					
BATTERY										
Battery Type	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 recharging time (Standard mode)	4 hours recover to 90% capacity									
Charging voltage	27.4VDC ± 1%	27.4VDC ± 1%	41.1VDC ± 1%	54.7Vdc ± 1%	54.7Vdc ± 1%	82.1Vdc ± 1%	82.1Vdc ± 1%	82.1Vdc ± 1%	109.4Vdc ± 1%	
Charging current (max.)	1A or 2A	12A max, can be set by LCD		1A or 2A	12A max, can be set by LCD		1A or 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										
Dimension W × D × H (mm)	440*325*86.5			440*460*86.5	440*435*86.5	440*600*86.5/440*460*131		440*435*86.5		
Net Weight (kg)	11.3	5.6	5.6	19.1	8.3	8.3	26.2/25.8	8.6	8.6	
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									

8 minutes backup time standard units

MODEL	UMC9101S-RT (UPS)	UMC102S-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	UM-CBC72RT	UMC-BC-96RT
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-BC-72T	UM-CBC96T
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