

EPS

1 ~ 3kVA Rackmount UPS

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

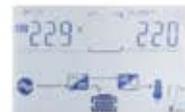


Features

- 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		EPS-1000-TOR			EPS-2000-TOR			EPS-3000-TOR		
Capacity (VA/Watts)		1000VA / 900w			2000VA			3000VA / 2700w		
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		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)								
PHYSICAL										
Dimension W × D × H (mm)		440*305*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								