

EPS

1 ~ 3kVA Tower UPS



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		EPS-1000-TOT		EPS-2000-TOT		EPS-3000-TOT	
Capacity (VA/Watts)		1000VA / 900w		2000VA		3000VA / 2700w	
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℃)		
	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℃)		
	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%	87%	88%	89%	90%
BATTERY							
Battery Type		12V9AH		12V9AH		12V9AH	
Numbers		2	3	4	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% 41.1VDC±1		54.7Vdc±1% 82.1Vdc±1%		82.1Vdc±1% 109.4Vdc±1%	
Charging current(max.)		1A / 2A		1A / 2A		1A / 2A	
SYSTEM FEATURES							
Line mode Battery mode	Ambient temp.<35℃	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℃<ambient Temp.<40℃	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(Output PF 1.0)							
Dimension W×H×D (mm)		144*209*293	144*209*399	144*209*309	191*337*460	191*337*460	
Net Weight (kg)		9.8	14.4	17	27.1	27.6	32.8
PHYSICAL(Output PF 0.8 or 0.9)							
Dimension W×H×D (mm)		144*209*293	144*209*399	144*209*309	191*337*460	0	191*337*46
Net Weight (kg)		9.8	14.4	17	27.1	27.6	32.8
ENVIRONMENT							
Operating temperature		0~40℃					
Storage temperature		-25℃ ~ 55℃					
Humidity range		20~90% RH @ 0~40℃ (Non-condensing)					
Altitude		<1500m					
Noise Level		Less than 50dBA at 1 Meter					
STANDARDS							
Safety		IEC/EN62040-1/IECEN60950-1					
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 UDC1-3K is in page 6