

Applications:











Data Center

Networking

Computer

Banking

Generator compatible

· DSP technology guarantees high reliability

A Digital Signal Processor (DSP) technology digitizes the data and mathematically manipulates them to provide an improved solution with higher performance.

Output power factor 1 (Only for 10K-80K)

For critical applications, this 3-phase online UPS with output power factor 1.0 ensures higher efficiency and advanced performance. * Power Factor 0.9 only for 100K-200K models

· Active power factor correction in all phases

Power factor correction is active in all phases and it can improve the efficiency of input.

Dual Inputs

EPOS series is also available for optional dual inputs to support various inputs to have flexibility for system configuration.

· 50Hz/60Hz frequency converter mode

Lock output frequency at 50Hz or 60Hz to suit power sensitive equipments.

· ECO mode operation for energy saving

ECO mode improves the efficiency up to 98% to cut energy usage & cost. In this mode, loads are supplied by the mains directly. While mains failure, the UPS will constantly supply the power to the connected device without any interruption.

· Emergency power off function (EPO)

In case of any emergency and fire, the EPO control mechanism can instantly shut down the system.

· Adjustable charging current

Users can adjust charging current via LCD setting based on applications.

· High overload capability

Supporting 110% overload capacity for 60 min and up to 1 min overload condition at 150% load.

· Very powerful charger

EPOS series is built-in 12A charger for 10K-40KVA models and 24A for 60K/80KVA models. It's to support very long runtime applications when connecting to big capacity of external battery cabinet.

Optional parallel operation with common battery

The system can be operated in parallel, increasing the capacity and performance. Besides, this parallel UPS system can share common battery packs which might greatly reduce the expense and reach the same performance.

· Adjustable battery design

The number of connected batteries can be adjusted flexibly based on different power demands. This feature can allow UPS to keep running even when some battery packs are damaged.



TECHNICAL SPECIFICATIONS

MODEL		EPOS 3/1 10KL	EPOS 3/1 20KL	EPOS 3/3 10KL	EPOS 3/3 20KL	EPOS 3/3 30KL	EPOS 3/3 40KL		
PHASE		3-Phase in/ 1-Pha	se out with Netural		3-phase in/3-ph	ase out with Netural			
CAPAC	ITY	10KVA/10KW	20KVA/20KW	10KVA/10KW	20KVA/20KW	30KVA/30KW	40KVA/40KW		
PARAL	LEL CAPABILITY			3					
INPUT									
Nominal V	oltage			3 x 400 VA	C (3Ph+N)				
Voltage Range		110-300 VAC 176-276 VAC		190-520 VAC(3-phase) @ 50% load 305-478 VAC(3-phase) @ 100% load					
Frequency Range		46~54Hz or 56~64Hz							
Power Fac	tor	≧ 0.99 @ 100% load							
OUTPU	Т								
Output Vo	ltage	208*/220/230/240 VAC (Ph-N) 3 x 360*/380/400/415 VAC (3Ph+N)							
AC Voltage	Regulation (Batt. Mode)			±	1%				
Frequency Range (Synchronized Range)		46~54Hz or 56~64Hz							
Frequency Range (Batt. Mode)		50 Hz \pm 0.1 Hz or 60 Hz \pm 0.1 Hz							
Current Cr	est Ratio			3:1	(max.)				
Harmonic Distortion			$\ge 2 \% \ @100\% \ Linear \ Load; \\ \ge 5 \% \ @100\% \ Non-linear \ Load $ $\ge 5 \% \ THD \ @100\% \ Non-linear \ Load$						
Transfer	AC Mode to Batt. Mode	Zero							
Time	Inverter to Bypass	zero (when phase interruption occurs fro			- Z	Zero			
Waveform	(Batt. Mode)	Pure Sine wave							
Overload	AC Mode	100-110% for 60 min, 110-125% for 10 min, 125%—150% for 1min, >150% immediately							
Overioau	Battery Mode	100-110% for 60 min, 110-125% for 10 min, 125%~150% for 1min, >150% immediately							
EFFICI	ENCY								
AC Mode		96%							
ECO Mode		99%							
Battery Mo	ode			9	96%				
BATTE	RY								
	Battery Type	Depending on the capacity of external batteries							
	Numbers	20 PCS	32~40 pcs (Adjustable)	20 PCS 32 ~ 40 PCS					
Long-run Model	Charging Current (max.)	1.0~12.0A ± 10% (Adjustable)	2.0~24.0A ± 10% (Adjustable)	1A ~ 12A (Adjustable)					
	Charging Voltage	+/-13.65 VDC* N ± 1% (N = 10)	+/-13.65 VDC* N ± 1% (N = 16~20)	+/-136.5 VDC ± 10%	10% +/-13.65V*N (N=16~20)				
INDICA	TORS	± 170 (14 = 10)	170 (14 - 10 20)						
LCD Displa	У		UPS status, Lo	pad level, Battery level, Input/Out	put voltage, Discharge timer,	and Fault conditions			
PHYSICAL									
Long-run Model	Dimension, D x W x H (mm)	626 x 250 x 827		630 x 25	50 x 826	815 x 3	300 x 1000		
	Net Weight (kgs)	46,5	46,5	28	43	60	67		
ENVIR	ONMENT								
Operation	Temperture			0-	40°C				
Operation Humidity		< 95% and non-condersing							
Noise Level		Less than 550	Less than 55dB @ 1 Meter Less than 58dB @ 1 Meter Less than 70dB @ 1 Meter						
MANAC	SEMENT								
Smart RS-232 / USB		Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8/10, Linux and MAC							
Optional SNMP		Power management from SNMP manager and web browser							

^{*}If output voltage is set as 3 x 360VAC, the output power of the unit will be de-rated to 90%. Product specifications are subject to change without further notice.

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Form Factor		Tower				
Model Name	BB +-120V18Ah	BB +-240V 18Ah 63A fuse for 20K	BB +-240V 18Ah 100A fuse for 30/40K			
Battery Type	12V / 9Ah	12V / 9Ah	12V / 9Ah			
Battery Number	40	80	80			
Dimension (DxWxH) mm	561 x 250 x 576	777 x 250 x 837	777 x 250 x 837			
Net Weight (kgs)	122	244	244			



TECHNICAL SPECIFICATIONS

MODE		EPOS 3/3 60KL	EPOS 3/3 80KL	EPOS 3/3 100KL	EPOS 3/3 120KL	EPOS 3/3 160KL	EPOS 3/3 200KL		
PHASE				3-phase in/3-pha	se out with Netural				
CAPAC	CITY	60kVA / 60kW	80kVA / 80kW	100KVA / 90KW	120KVA / 108KW	160KVA / 144KW	200KVA / 180KW		
PARALLEL CAPABILITY		3 2							
INPUT									
Nominal V	oltage			3 x 400 V	AC (3Ph+N)				
Voltage Ra		190-520 VAC @ 50% load		208-478 VAC(3-phase) @ 50% load					
		305-478 VAC @ 100% load		305-478 VAC(3-phase) @ 100% load					
Frequency		46~54Hz c	or 56~64Hz			or 56~64Hz			
Power Fac				≧ 0.99 @	100% load				
OUTPL Output Vo		3 x 360*/380/400	/415 VAC (3Ph+N)		3 x 380*/400/415 VAC (3Ph+N)				
	e Regulation (Batt. Mode)		7.110 7.10 (0.1111)						
		± 1%							
	Range (Synchronized Range)	46~54Hz or 56~64Hz							
Current Cr	Range (Batt. Mode)	50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz							
- Current Ci	est Natio	3:1 (max.) ≥ 2 % @100% Linear Load; ≥ 2 % THD @100% Linear Load;							
Harmonic	Distortion	≥ 5 % @100% N							
Transfer	AC Mode to Batt. Mode	Zero							
Time	Inverter to Bypass				Zero				
Waveform (Batt. Mode)		Pure Sine wave							
Overload	AC Mode		100-110% for 60 min, 110-125% for 10 min, 105-110% for 60 min, 111-125% for 10 min, 125%-150% for 1min, >150% immediately 126%-150% for 1min, >150% immediately						
Overload	Battery Mode	100-110% for 60 min, 125%~150% for 1min			105-110% for 60 min, 111-125% for 10 min, 126%~150% for 1min, >150% immediately				
EFFICI	ENCY								
AC Mode		96	%		94%				
ECO Mode		99%			98%				
Battery M	ode	96	96% 93%						
BATTE	RY								
	Battery Type	Depending on the capacity of external batteries							
	Numbers	32 ~ 40 PCS							
Long-run Model	Charging Current (max.)		24.0A stable)	24A	32A	40A	48A		
	Charging Voltage	+/-13.65		+/-13.7V*N (N=16~20)					
INDICATORS		± 1% (I	± 1% (N = 10)						
LCD Displa			UPS status, L	oad level, Battery level, Input/O	utput voltage, Discharge timer,	and Fault conditions			
PHYSIC	CAL								
Long-run	Dimension, D x W x H (mm)	790 x 36	60 x 1010	940 x	567 x 1015	1040 x 5	567 x 1452		
Model	Net Weight (kgs)	108	113	194	229	306	340		
ENVIR	ONMENT								
Operation Temperture		0-40°C							
Operation Humidity		< 95% and non-condersing							
Noise Level		Less than 75	idB @ 1 Meter	Less than 70dB @ 1 Meter		Less than 73	Less than 73dB @ 1 Meter		
MANA	GEMENT								
Smart RS-232 / USB		Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8/10, Linux and MAC							
Optional SNMP		Power management from SNMP manager and web browser							
	voltage is set as 3 x 360VAC, the ou	itnut nower of the unit	ill he de-rated to 000/	9					

*If output voltage is set as 3 x 360VAC, the output power of the unit will be de-rated to 90%. Product specifications are subject to change without further notice.

Backup Time Table for EPOS Series Backup Time with Load (Min) 25 % 50 % 75% 100 % Battery Bank 13.2 **EPOS 3/1 10KL** +1BB +-120V 18Ah-240V/18Ah 49.8 22.3 9.0 30.3 EPOS 3/3 10KL +2BB +-120V 18Ah-240V/36Ah 22.0 13.3 +1BB +-240V 18Ah-480V/18Ah EPOS 3/1 20KL 49.3 21.9 9.5 **EPOS 3/3 20KL** +2BB +-240V 18Ah-480V/36Ah 30.9 22.8 7.7 +1BB +-240V 18Ah-480V/18Ah 29.9 13.1 18.9 5.1 EPOS 3/3 30KL 69.0 30.4 +2BB +-240V 18Ah-480V/36Ah 13.5 +1BB +-240V 18Ah-480V/18Ah 21.5 9.1 4.9 3.1 EPOS 3/3 40KL +2BB +-240V 18Ah-480V/36Ah 49.3 21.9 13.3 9.4

