

Online UPS EPOS SERIES 10KVA-200KVA



EPOS SERIES



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

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.

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

Galleon II 33 series is also available for optional dual inputs to support various inputs to have the flexibility for system configuration.

Very powerful charger

Galleon II 33 Series is a 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 the external battery cabinet's big capacity.

50Hz/60Hz frequency converter mode

Loch output frequency at 50Hz or 60Hz to suit power sensitive equipment.

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

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.

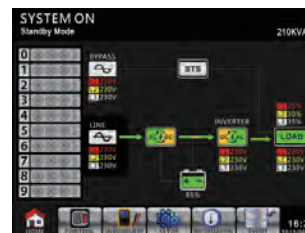
Optional parallel operation with common battery

The system can be operated in parallel, increasing the capacity and performance. This parallel UPS system can also share common battery packs, which

Adjustable battery design

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

Optional 4.3" touch LCD for EPOS 10K-80K models



FSP GROUP

FORTRON/SOURCE

MODEL	EPOS 3/1 10KL	EPOS 3/1 20KL	EPOS 3/3 10K(L)	EPOS 20K(L)	EPOS 3/3 30KL	EPOS 3/3 40KL
PHASE	3-Phase in/ 1-Phase out with Neutral			3-phase in/3-phase out with Neutral		
CAPACITY	10KVA/10KW	20KVA/20KW	10KVA/10KW	20KVA/20KW	30KVA/30KW	40KVA/40KW
PARALLEL CAPABILITY	3					
INPUT						
Nominal Voltage	3 x 400 VAC (3Ph+N)					
Voltage Range	110-300 VAC @ 50% load 176-276 VAC @ 100% load			190-520 VAC(3-phase) @ 50% load 305-478 VAC(3-phase) @ 100% load		
Frequency Range	46~54Hz or 56~64Hz					
Power Factor	≥ 0.99 @ 100% load					
OUTPUT						
Output Voltage	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 ± 0.1 Hz or 60 Hz ± 0.1 Hz					
Current Crest Ratio	3:1 (max.)					
Harmonic Distortion	THD ≤ 2 % @100% Linear Load; THD ≤ 5 % @100% Non-linear Load			THD ≤ 2 % THD @100% Linear Load; THD ≤ 5 % THD @100% Non-linear Load		
Transfer Time	AC Mode to Batt. Mode Inverter to Bypass			Zero 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		
	Battery Mode			100-110% for 60 min, 110-125% for 10 min, 125%-150% for 1min, >150% immediately		
EFFICIENCY						
AC Mode	95.5%					
ECO Mode	98.5%					
Battery Mode	94.5%					
BATTERY						
	Battery Type					
	Depending on the capacity of external batteries					
Long-run Model	Numbers	20 PCS	32~40 pcs (Adjustable)	20 PCS	32 ~ 40 PCS	
	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%	+/-13.65V*N (N=16~20)	
Standard Model	Numbers	20 PCS		40 PCS		
	Charging Current(max.)	2A ± 10%		2A ± 10%		
	Charging Voltage	+/-136.5 VDC ± 10%		+/-218 VDC		
INDICATORS						
LCD Display	UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions					
PHYSICAL						
Long-run Model	Dimension, D x W x H (mm)	626 x 250 x 827		630 x 250 x 826		815 x 300 x 1000
	Net Weight (kgs)	46,5	46,5	28	43	60
						67
ENVIRONMENT						
Operation Temperature	0-40°C					
Operation Humidity	< 95% and non-condensing					
Noise Level	Less than 55dB @ 1 Meter		Less than 58dB @ 1 Meter		Less than 70dB @ 1 Meter	
MANAGEMENT						
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.



Backup Time Table for EPOS Series

BATTERY BANK		Backup Time Table (min)			
		25%	50%	75%	100%
EPOS 3/1 10KL	+1BB+120V 18Ah (12V-9Ah x 40)	49.8	22.3	13.2	9.0
EPOS 3/3 10KL	+2BB+120V 18Ah	110	50.5	30.3	22.0
EPOS 3/1 20KL	+1BB+240V 18Ah (12V-9Ah x 80)	49.3	21.9	13.3	9.5
EPOS 3/3 20KL	+2BB+240V 18Ah	109	49.9	30.9	22.8
EPOS 3/3 30KL	+1BB+240V 18Ah (12V-9Ah x 80)	29.9	13.1	7.7	5.1
	+2BB+240V 18Ah	69.0	30.4	18.9	13.5
EPOS 3/3 40KL	+1BB+240V 18Ah (12V-9Ah x 80)	21.5	9.1	4.9	3.1
	+2BB+240V 18Ah	49.3	21.9	13.3	9.4

MODEL	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-phase out with Neutral					
CAPACITY	60kVA / 60kW	80kVA / 80kW	100kVA / 90kW	120kVA / 108kW	160kVA / 144kW	200kVA / 180kW
PARALLEL CAPABILITY	3			2		
INPUT						
Nominal Voltage	3 x 400 VAC (3Ph+N)					
Voltage Range	190-520 VAC @ 50% load 305-478 VAC @ 100% load			208-478 VAC(3-phase) @ 50% load 305-478 VAC(3-phase) @ 100% load		
Frequency Range	46~54Hz or 56~64Hz			40~70Hz or 56~64Hz		
Power Factor	≥ 0.99 @ 100% load					
OUTPUT						
Output Voltage	3 x 360*/380/400/415 VAC (3Ph+N)			3 x 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 ± 0.1 Hz or 60 Hz ± 0.1 Hz					
Current Crest Ratio	3:1 (max.)					
Harmonic Distortion	≥ 2 % @ 100% Linear Load; ≥ 5 % @ 100% Non-linear Load			≥ 2 % THD @ 100% Linear Load; ≥ 4 % THD @ 100% Non-linear Load		
Transfer Time	AC Mode to Batt. Mode			Zero		
	Inverter to Bypass			Zero		
Waveform (Batt. Mode)	Pure Sine wave					
Overload	AC Mode			105-110% for 60 min, 111-125% for 10 min, 125%~150% for 1min, >150% immediately		
	Battery Mode			105-110% for 60 min, 111-125% for 10 min, 126%~150% for 1min, >150% immediately		
EFFICIENCY						
AC Mode	95,5%			94%		
ECO Mode	98,5%			98,5%		
Battery Mode	94,5%			93,0%		
BATTERY						
Battery Type	Depending on the capacity of external batteries					
Numbers	32 - 40 PCS					
Long-run Model	Charging Current (max.)			2.0~24.0A (Adjustable)		
	Charging Voltage			+/-13.65 VDC* N ± 1% (N = 10)		
INDICATORS						
LCD Display	UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions					
PHYSICAL						
Long-run Model	Dimension, D x W x H (mm)		790 x 360 x 1010		940 x 567 x 1050	
	Net Weight (kgs)		46,5		60	
ENVIRONMENT						
Operation Temperature	0-40°C					
Operation Humidity	< 95% and non-condensing					
Noise Level	Less than 75dB @ 1 Meter		Less than 70dB @ 1 Meter		Less than 73dB @ 1 Meter	
MANAGEMENT						
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.

