

XTREME POWER CONVERSION E90 10kVA, 15kVA, & 20kVA

Online Tower UPS // 208/120VAC Three-Phase

For more information, visit www.republicpowersystems.com/e90



Economical, Efficient and Reliable E90 UPS provides online power protection in a compact footprint

E90 UPS provides economical three phase double conversion power for small data centers, network closets, retail stores, servers and industrial applications.

E90 features unity output power factor to support up to 25% more critical loads than similar competitive UPS. Up to 50% smaller than competitive units, the E90 provides an all-in-one, energy efficient solution.

For modular three phase UPS options, reference the M90 at:
www.republicpowersystems.com/M90

PRODUCT SNAPSHOT

- › Available models: 10kVA/10kW, 15kVA/15kW, 20kVA/20kW
- › Compact footprint
- › Unity power factor
- › UL 1778, CSA C22.2 No. 103.3-14, FCC Class A, Energy Star
- › 2 years electronics, 2 years battery warranty (USA and Canada)

FEATURES

Efficient operation—up to 94.5% online or 98% ECO mode efficiency lowers energy consumption

Unity output power factor—E90 systems provide more real capacity for high density loads

Dual or single inputs—E90 includes separate rectifier and bypass inputs. Input jumpers are pre-installed.

Parallel operation—up to four units can be paralleled for additional capacity or N+1 redundancy

Programmable charger—1A to 20A adjustable from the front panel

Communications—RS485, USB, RS232, Dry Contacts, and two communication slots for optional cards

Internal maintenance bypass—manually transfer critical loads from UPS power to utility power, enabling E90 UPS maintenance

Extended battery packs—optional matching battery cabinets available for runtimes up to 24 hours at partial load

Reduced MTTR—power module FRU easily swaps, reducing maintenance time

MODEL SELECTION GUIDE

For more information, visit www.republicpowersystems.com/e90

MODEL NUMBER		E90-10K	E90-15K	E90-20K
CAPACITY	Power rating	10kVA/10kW	15kVA/15kW	20kVA/20kW
INPUT	Voltage / Range	208Y/120VAC or 220Y/127VAC / 125-275VAC three-phase*		
	Frequency	40–70Hz auto-sensing		
OUTPUT	Voltage / Regulation	208/120VAC or 220/127VAC / ± 1% three-phase		
	Frequency	50/60±0.1%		
	Overload capacity	150% for 1 min, 125% for 10 min, 110% for 60 min		
	Efficiency	Up to 94% online mode or 98% ECO mode		
BATTERY	Battery Type	Sealed maintenance-lead acid		
	Battery quantity	Up to (60) 12V 9AH		
	Charger Voltage / Current	273VDC / 1A-20A (max) programmable from LCD		
PHYSICAL	Dimensions (W x D x H)	9.8 x 39.2 x 34.0 in		
	Input / Output	Terminal blocks		
	Weight	296 lbs (1 string)	419 lbs (2 string)	539 lbs (3 string)
OPTIONAL BATTERY PACK	Model	EBP80-63A	EBP80-125A	
	Battery quantity and size	(80) 12V 9AH		
	Dimensions (W x D x H)	9.8 x 39.2 x 34.0 in		
	Weight	535 lbs		
ENVIRONMENT	Operating temperature	32–104°F (0–40°C)		
	Audible noise	<55dB from 1M distance for 10/15kVA; <58dB from 1M distance for 20kVA		
	Altitude	5,200 ft above sea level**		
APPROVALS		UL 1778, CSA C22.2 No. 103.3-14, FCC Class A, Energy Star		
WARRANTY		2 years electronics, 2 years battery warranty (USA and Canada)		
COMMUNICATIONS INTERFACE		RS-232, EPO, RS485, USB, dry contact, (2) slots for optional cards (Web/SNMP, Relay/dry contact)		
INCLUDED IN BOX		User manual, RS-232 communication cable, USB cable, Muser monitoring software		
AVAILABLE OPTIONS		External maintenance bypass, output distribution, external battery packs, parallel cables		

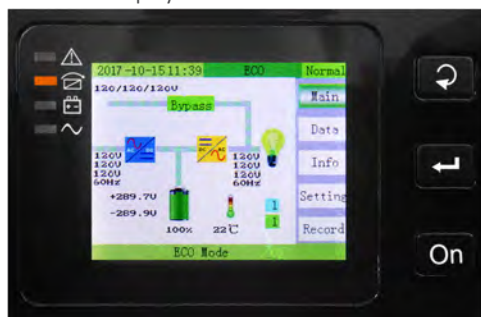
*Depending on load level. **Battery life is reduced above 30°C, UPS capacity derates above 40°C and 5,200 ft above sea level

BATTERY RUNTIMES

	Internal Batteries						Extended Battery Packs							
	1 string (K1)		2 strings (K2)		3 strings (K3)		(1)EBP80		(2)EBP80		(3)EBP80		(4)EBP80	
Percentage load:	50%	100%	50%	100%	50%	100%	50%	100%	50%	100%	50%	100%	50%	100%
E90-10K	9	2	23	9	38	16	112	47	183	86	266	120	362	153
E90-15K	-	-	13	4	22	8	66	27	115	48	158	73	210	97
E90-20K	-	-	-	-	19	7	57	23	101	42	139	62	184	87

Runtimes are shown in minutes and will vary based on battery age and site conditions. Extended battery pack runtimes are based on E90 units with three internal battery strings.

Color LCD display



X-TREME
Power Conversion®

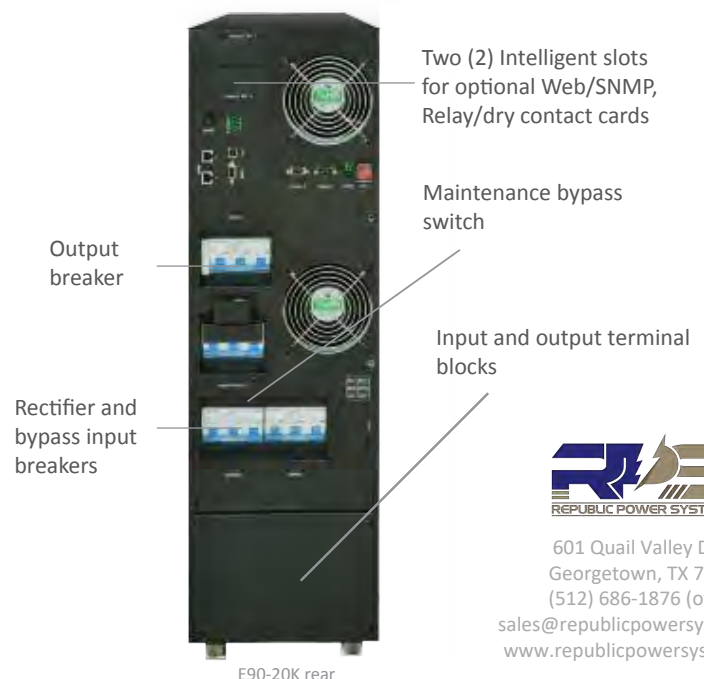
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