

MEPSE91 10kW, 15kW & 20kW

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



Unity power factor three-phase UPS for Edge facilities and other critical IT applications

MEPSE91 UPS provides reliable three phase double conversion power for edge facilities, small data centers, network closets, and industrial applications.

MEPSE91 features unity output power factor to support up to 25% more critical loads than typical UPSs. E91's touch screen LCD allows vital monitoring with interactive power one-line, alarms and UPS status. External battery packs are available for longer runtimes.

PRODUCT SNAPSHOT

- › Available models: 10kW, 15kW, 20kW
- › Unity power factor
- › Approvals: UL, cUL, FCC, Energy Star 2.0
- › 2 years electronics, 2 years battery warranty (USA and Canada)

FEATURES

Touch LCD Display—4.3" touch display provides vital information including status and alarms

High Overload Capability — MEPSE91 provides protection during momentary overloads

Unity output power factor —MEPSE91 systems provide more real capacity for high density loads

Energy Star — 10, 15, and 20kW Models meet Energy Star 2.0

Parallel Operation — up to three UPS can be operated in parallel.

Frequency converter — lock output at 50Hz/60Hz

Efficient Operation— operation at up to 94% in double conversion mode or 98% in ECO mode

Dual or single inputs — MEPSE91 includes separate rectifier and bypass inputs. Input jumpers are pre-installed.

Maintenance bypass— manually transfer critical loads from UPS power to utility power, enabling MEPSE91 maintenance



MODEL SELECTION GUIDE

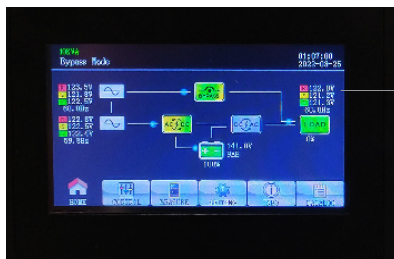
	MODEL NUMBER	MEPSE91-10K	MEPSE91-15K	MEPSE91-20K
CAPACITY	Power rating	10kVA/10kW	15kVA/15kW	20kVA/20kW
INPUT	Voltage / Range	208Y/120VAC or 220Y/127 +20/-15% VAC three-phase		
	Frequency	46-54Hz or 56-64Hz		
OUTPUT	Voltage / Frequency	208/120VAC or 220/127VAC / 50/60±0.1%		
	Overload capacity	Up to 110% for 1 hour, 130% for 1 min, >130% for 1 sec		
	Efficiency	up to 94% online mode or 98% ECO mode		
INTERNAL BATTERY	Battery type	Sealed maintenance-lead acid		
	Battery quantity	(40) 12V/9AH	(60) 12V/9AH	
	Charging current	2A-12A	4A, 8A, 12A	
PHYSICAL	Dimensions (W x D x H)	9.9" x 26.3" x 32.3"	11.9" x 34" x 40.2"	
	Weight	315 lbs	504 lbs	510 lbs
OPTIONAL BATTERY PACK	Model	EBP09-2 / EBP09-5		
	Battery quantity and size	(40) 12V 9AH / (100) 12V 9AH		
	Weight	310 lbs / 670 lbs		
	Dimensions (W x D x H)	11.9" x 34" x 40.2"		
OPTIONAL PDU	Model	E91-PDU1	E91-PDU2	
	Output receptacles	(4) L21-20R each protected by a 20A breaker	(4) L21-30R each protected by a 30A breaker	
ENVIRONMENT	Operating temperature	32-104°F (0-40°C)*		
	Audible noise	<60dB for 10kVA; <65dB		
	Altitude	5,200 ft above sea level*		
APPROVALS		UL, cUL, FCC. 10, 15, & 20kW are Energy Star 2.0		
WARRANTY		2 years warranty (USA and Canada)		
COMMUNICATIONS INTERFACE		RS-232, EPO, USB, intelligent slot for optional cards (Web/SNMP, Relay/dry contact)		
INCLUDED IN BOX		User manual, RS-232 communication cable, USB cable		
AVAILABLE OPTIONS		External maintenance bypass, output distribution, external battery cabinets		

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

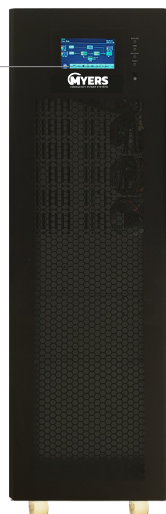
BATTERY RUNTIMES

Percentage load:	UPS Internal Batteries				UPS + EBP09-2				UPS + EBP09-5			
	25%	50%	75%	100%	25%	50%	75%	100%	25%	50%	75%	100%
MEPSE91-10K	69	28	16	11	152	69	41	28	298	130	86	58
MEPSE91-15K	69	28	16	11	125	54	32	22	215	98	59	41
MEPSE91-20K	47	19	11	7	93	37	22	15	152	69	41	28

Runtimes are shown in minutes and will vary based on battery age and site conditions.



4.3" touch display



MEPSE91-15/20kVA front view



MEPSE91-15/20kVA rear view

Input breaker
Output breaker
Maintenance bypass switch
Optional PDU