

MEPSE91 30kW & 40kW

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. MEPSE91'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: 30kW, 40kW
- › Rear clearance not required
- › Unity power factor
- › Approvals: UL, cUL, FCC
- › 2 years electronics, 2 years battery warranty (USA and Canada)

FEATURES

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

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

Saves floor space —MEPSE91 30kW and 40kW UPS can be installed against the wall, no rear service clearance is required

Parallel operation—up to three UPS can be operated in parallel

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— front bypass switch allows loads to be transferred from UPS power to utility power, enabling MEPSE91 maintenance

Frequency converter—lock output at 50Hz/60Hz

MODEL SELECTION GUIDE

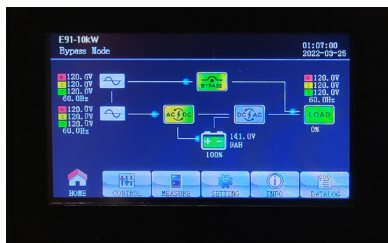
MODEL NUMBER		MEPSE91-30K	MEPSE91-40K
CAPACITY	Power rating	30kVA/30kW	40kVA/40kW
INPUT	Voltage / Range	208Y/120VAC or 220Y/127 +20/-15% VAC three-phase	
	Frequency	46-54Hz or 56-64Hz	
OUTPUT	Voltage / Frequency	208/120VAC or 220/127VAC / 50/60±0.1%	
	Overload capacity	150% for 1 min, 125% for 10 min, 110% for 60 min	
	Inverter switching frequency	19.2 kHz	
	Efficiency	up to 94% online mode or 98% ECO mode	
INTERNAL BATTERY	Battery type	Sealed maintenance-lead acid	
	Battery quantity	(60) 12V/580W	(80) 12V/580W
	Max charging adjustable	8A	
PHYSICAL	Dimensions (W x D x H)	23.6" x 36.3" x 65.6"	
	Weight	690 lbs	831 lbs
OPTIONAL BATTERY PACK	Model	EBP10-5	
	Battery quantity and size	(100) 12V 580W	
	Weight	770 lbs	
	Dimensions (W x D x H)	11.9" x 34" x 40.2"	
ENVIRONMENT	Operating temperature	32-104°F (0-40°C)*	
	Audible noise	<60dB for 10kVA; <65dB for 15/20/30/40	
	Altitude	5,200 ft above sea level*	
APPROVALS		UL, cUL, FCC	
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				EBP10-5			
	25%	50%	75%	100%	25%	50%	75%	100%
MEPSE91-30K	37	16	9	6	116	52	32	23
MEPSE91-40K	37	16	9	6	98	43	26	18

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



4.3" touch display

Internal Battery Switch
Output Terminal Blocks
Wire access from cabinet rear



MEPSE91-40K front view (door & panels removed)

Input, Output & Maintenance Bypass Breakers
External Battery Terminal Blocks
Main input & bypass input terminal blocks
Internal battery modules



MEPSE91-40K rear view

Top or bottom cable entry from rear.
Terminations in the front