

XTREME POWER CONVERSION TX90 6kVA & 10kVA

Isolated Online Tower UPS // 240/120VAC or 208/120VAC

For more information, visit:
www.republicpowersystems.com/tx6-10



Isolated online UPS provides protection from all 10 common power problems

Isolated online UPS provides the cleanest power in the most demanding conditions. The TX90 galvanic isolation transformer prevents common mode noise which is left exposed by typical transformerless online designs.

Isolated online applications include retail, industrial environments, laboratories, and any installation with grounding or noise issues.

TX90 provides dual output voltages and programmable output frequency to meet a wide range of requirements.

For parallel TX90 6kVA & 10kVA modules, reference
www.republicpowersystems.com/tx6-40

PRODUCT SNAPSHOT

- › Available models: 6kVA/5.4kW, 10kVA/9kW
- › Optional battery runtimes up to 8 hours
- › Auto restart
- › UL1778, cUL, FCC Class A, RoHS
- › 3 years electronics, 3 years battery warranty (USA and Canada)

FEATURES

Parallel operation—up to four TX90 units can be paralleled for additional capacity or redundant operation

Maintenance bypass—manually transfer critical loads from UPS power to utility power, enabling TX90 UPS maintenance

Galvanic isolation transformer—eliminates common mode noise and the need to install expensive dedicated circuits and provides power conditioning during normal and bypass operation

Extended battery runtimes—optional 580W internal batteries (XR models) and external battery cabinets and chargers can be added for extended runtime

Customized input & output voltage—configurations to meet most site requirements and world standards

Surge voltage let-through (max)—< 10V normal mode (L-N), < 0.5V common mode (N-G) when subjected to 6kV ANSI/IEEE C62.41 Cat. A

Hot swappable internal battery trays—easy to replace without interrupting the load

Frequency converter—TX90 can be programmed to convert from 50Hz to 60Hz or 60Hz to 50Hz

Surge voltage withstand capability—ANSI/IEEE C62.41 Category A & B, 6kV/200 & 500A, 100kHz ringwave

MODEL SELECTION GUIDE

For more information, visit www.republicpowersystems.com/tx6-10

MODEL NUMBER		TX90-6K	TX90-10K
CAPACITY	Power rating	6kVA (5.4kW)	10kVA (9kW)
INPUT	Voltage (nominal)	208VAC (200VAC, 220VAC, 230VAC, 240VAC optional)	
	Frequency	45–65Hz auto-sensing	
	Power factor	Up to 0.99 at linear load	
	Harmonic distortion	< 3% at linear load	
OUTPUT	Voltage	240/120VAC or 208/120VAC* standard (other optional voltages available)	
	Overload capacity	105%–150% for 160 sec, 2 cycles before switching to bypass	
	Efficiency	97% ECO mode, 91% online mode	
BATTERY	Battery type	Sealed, maintenance-free lead acid	
	Battery (standard models)	(20) 12V 7AH	(20) 12V 9AH
	Battery (XR models)	(20) 12V 580W	(20) 12V 580W
PHYSICAL	Input/output	Terminal blocks or optional PDU	
	Dimensions (W x D x H)	11.4 x 28.0 x 29.5 in	11.4 x 28.0 x 34.7 in
	Weight	TX90-6K–322 lbs; TX90-6KXR–332 lbs	TX90-10K–389 lbs; TX90-10KXR–399 lbs
OPTIONAL BATTERY PACKS	Battery quantity and size	EBP920–(20) 12V 9AH; EBP940–(40) 12V 9AH; EBP960–(60) 12V 9AH	
	Dimensions (W x D x H)	11.4 x 25.4 x 29.5 in	
	Weight	EBP920–204 lbs; EBP940–324 lbs; EBP960–446 lbs	
OPTIONAL PDU	Input connection	6 ft, L6–30P	Terminal blocks
	120V receptacle options	5–15/20R, L5–15R, L5–20R, L5–30R, C19	
	240V receptacle options	L6–30R, L6–20R, L6–15R, 6–15/20R, L14–30R, C19	
ENVIRONMENT	Temperature	32–104°F (0–40°C)	
	Audible noise	< 50dBA	
	Altitude	11,500 ft above sea level	
APPROVALS		UL1778, cUL, FCC Class A, RoHS	
WARRANTY		3 years electronics, 3 years battery warranty (USA and Canada)	
COMMUNICATIONS INTERFACE		RS-232, EPO, intelligent slot for optional cards (Web/SNMP, Relay/dry contact)	
INCLUDED IN BOX		User manual, RS-232 communication cable, shutdown software	
AVAILABLE OPTIONS		Output PDU, external battery charger, parallel tie/bypass, input L6–30P cord (for 6kVA only)	

*208/120VAC output consists of one leg of 120V and one leg of 88V.

BATTERY RUNTIMES

	Internal battery		+ EBP920		+ EBP940		+ EBP960		+ (2) EBP940		+ (2) EBP960		+ (3) EBP960		+ (4) EBP960	
Percentage load:	50%	100%	50%	100%	50%	100%	50%	100%	50%	100%	50%	100%	50%	100%	50%	100%
TX90-6K	21	7	61	25	102	42	145	60	192	80	293	121	457	190	634	263
TX90-6KXR	33	14	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TX90-10K	13	4	32	13	54	22	77	32	102	42	155	64	241	100	335	139
TX90-10KXR	18	7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

For extended runtimes and detailed requirements, see www.xpcc.com/selector. Runtimes are shown in minutes and will vary based on battery condition, age, cycles, and ambient temperature. Optional 1000W charger recommended for applications requiring three or more battery packs.

Hot swappable battery trays with Anderson connectors



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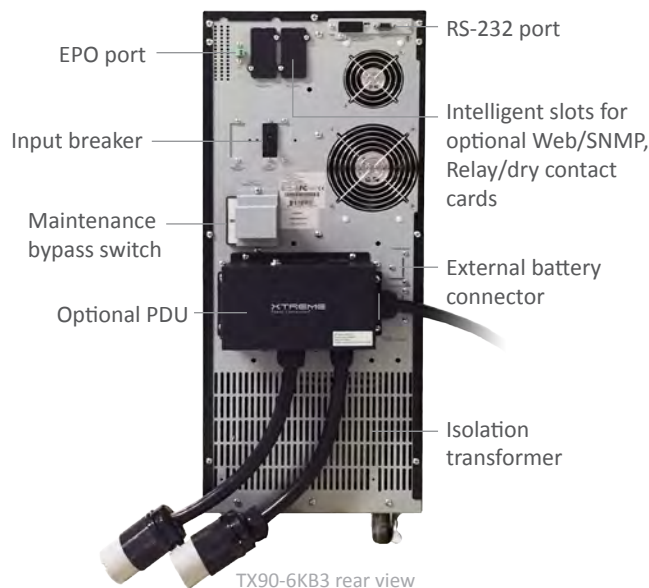
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TX90-10K front view (panel removed)



TX90-6KB3 rear view