

XTREME POWER CONVERSION R90 20kVA/18kW

Online UPS // 415/240VAC, 400/230VAC, 380/220VAC

For more information,
visit www.xpcc.com/r90



Reduce power consumption with 95.5% online efficiency

Xtreme Power R90 is a full featured scalable UPS designed for high density server racks and network equipment. Outstanding energy saving performance with up to 95.5% online and 98.5% ECO mode efficiency. The R90 flexible, modular design supports parallel operation up to 10 units N+X configuration.

PRODUCT SNAPSHOT

- › Parallel for capacity or redundancy
- › Voltage can be configured in 415/240V, 400/230V, or 380/220V
- › 50Hz or 60Hz operation
- › Online double conversion or ECO mode operation
- › 3 years (USA and Canada), 2 years (EMEA) electronics warranty

FEATURES

Compact 3U UPS module—the UPS module occupies just 3U of rack space

Parallel operation—up to ten R90 units can be paralleled for N+X redundancy or capacity up to 200kVA/180kW

Scalable battery packs—up to eight EBP32 battery packs can be added for longer runtimes

Advanced LCD display—power metering for individual phases and system summary

Smart charger—programmable boost/float or both

Multiple communications capability—RS232/RS485 and Web/SNMP

High power density—20kVA/18kW of protection and backup power in just 6U of rack space

Efficiency—up to 95.5% efficiency in online mode and 98.5% efficiency in ECO mode

MODEL SELECTION GUIDE

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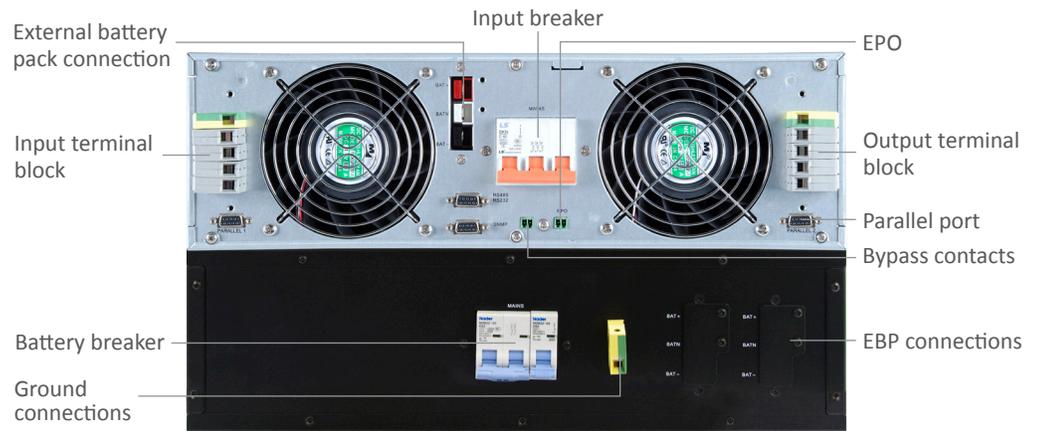
MODEL NUMBER		R90-20K
INPUT	Capacity	20kVA/18kW
	Phase	Three-phase, four wires and ground
	Voltage range	210–478VAC*
	Frequency	40–70Hz
	Power factor	≥ 0.99
OUTPUT	Voltage	380/220VAC, 400/230VAC, 415/240VAC (selectable)
	Power factor	0.9 (0.7 leading–0.7 lading load PF accepted)
	Overload protection	< 110% for 60 min; < 125% for 10 min; < 150% for 1 min; > 150% immediate
	Voltage regulation	< 2%
	Efficiency	Online mode up to 95.5%; ECO mode 98.5%
PHYSICAL	UPS dimensions (W x D x H)	443 x 580 x 131 mm (17.4 x 22.8 x 5.2 in)
	UPS weight	31 kg (68.4 lbs)
OPTIONAL R90-EBP32	Dimensions (W x D x H)	438 x 698 x 133 mm (17.3 x 27.5 x 5.3)
	Weight	93 kg (205 lbs)
	Common battery voltage	± 192VDC, ± 204VDC, ± 216VDC, ± 228VDC, ± 240VDC
	EBP32 battery voltage	± 192VDC, (32) 12V 7.2AH
	Charge current	1A to 6A programmable
OPTIONAL MAINTENANCE BYPASS	Model number	R90-MB40A
	Type	4 position, make-before-break with UPS interlock; 40A
	Dimensions (W x D x H)	431 x 229 x 89 mm (17.0 x 9.0 x 3.5 in)
	Weight	4.8 kg (10.5 lbs)
ENVIRONMENT	Operating temperature	0–40°C (32–104°F)
	Altitude	11,500 ft above sea level
	Humidity	0–95% non-condensing
	Storage temperature	-25–55°C (-13–131°F) non-condensing (UPS)
APPROVALS	CE, EN/IEC 62040-2, EN/IEC 62040-1-1	
WARRANTY	3 years electronics (USA and Canada), 2 years electronics (EMEA)	
COMMUNICATIONS INTERFACE	RS232, RS485, EPO, parallel port, external Web/SNMP (optional)	
INCLUDED IN BOX	Shelf kit, local monitoring software	
AVAILABLE OPTIONS	Input/output cord kits, Web/SNMP card, maintenance bypass, output distribution	

*Depending on load level

BATTERY RUNTIMES

	(1) R90-EBP32	(2) R90-EBP32	(3) R90-EBP32	(4) R90-EBP32	(5) R90-EBP32	(6) R90-EBP32	(7) R90-EBP32	(8) R90-EBP32
5kVA/4.5kW	15	36	60	87	116	146	178	211
10kVA/9kW	6	15	25	36	47	60	73	87
15kVA/13.5kW	4	9	15	21	28	36	48	52
20kVA/18kW	*	5	10	15	19	25	30	36

Runtimes are shown in minutes and will vary based on battery condition, age, cycles, and ambient temperature. *Two or more EBP32 battery packs are recommended for loads over 15kVA/13.5kW.



R90-20K, R90-EBP32 rear view

X-TREME
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Protect your business.

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