



### Revolutionizing power protection equipment with the NextGen UPS. 47KW Cabinet & 101KW Cabinet (available up to 2MW consult factory)

☎ Telecom

📄 Datacom

🚗 Mass transport

🏭 Industry

⚡ Power Utilities

🌿 Renewable

**AC In**  
120 / 240 Vac  
3x208 Vac

**Back up**  
5 Minutes

**AC Out**  
120 / 240 Vac  
3x208 Vac

**30 to 100 kW**

## Introduction

The NextGen UPS is redefining power protection with ECI patented technology inside that simplifies installation, maintainability with high power density, high efficiency, long life expectancy, fault tolerance, peak shaving, and grid re-injection ready.

*The first UPS designed based on customer's experience and requirement in today's evolving market in mind...*

The market now demands for deployed data and computing closer to the action with accelerated data and application for next-gen workloads. To achieve this, telecommunication and IT servers requires ultra-low latency connectivity and distributed computing. The NextGen UPS has been designed for this. It provides unmatched performance to ensure the continuity of your operation with multiple redundancy, high efficiency, easy maintenance, and offering low Total Cost of Ownership (TCO).

- Double Conversion On-Line Topology
- Compact footprint and robust design
- Hot-swappable
- Modular design (scalable)
- No single point of failure
- On-line double conversion (galvanic insulation)
- Ultra-low MTTR
- Network manageability
- IP51 is optional (available)
- Standard 5 years warranty



NextGen UPS - 47 kW



NextGen UPS - 101 kW

## Features and Benefits

Superior performance and power protection with best-in-class high power density, long life expectancy, and efficiency for Data Center, Edge Computing, Telecom, and Industrial applications.

In the NextGen UPS, all converters are hot-swappable and replaceable by untrained personnel, whereas the battery blocks can be serviced with the system on-line. No interruption during maintenance periods, no interruption ever. With a couple more modules in the same bay, the most demanding businesses will enjoy N+1 fault-tolerant construction at the lowest cost and unbeatable user experience. The NextGen UPS is highly recommended with poor and

Illustrations are non-binding and may include customized fittings.



# NextGen UPS Split phase or Three phase

	NextGen UPS - 47 kW - 1 cabinet	NextGen UPS - 101 kW - 2 cabinets
<b>General</b>		
Topology	Online Double Conversion	
Power Rating (for more details, refer table 2 on page 4)	57 kVA / 47 kW	123 kVA / 101 kW
UPS Manual Bypass	Optional external manual bypass	
<b>Environmental</b>		
Operating Temperature Range / Storage Temperature Range	15 to 40°C Ambient / -20 to 70°C Ambient	
Storage Relative Humidity / Operating Relative Humidity	10% - 95% non-condensing / 20% - 90% non-condensing	
Altitude	< 1500 m: No derating, > 1500 m: Derating of 0.8% per 100m	
Audible Noise	<60 dBA @ 1 meter from surface	
<b>Power</b>		
<b>AC Input Data (for rating, refer table 1 on page 4)</b>		
Nominal Input Voltage	120 / 240 split phase / 3x208 Vac + N three phase (for rating and power, refer table 1 on page 3)	
Input Voltage Range	108 - 140 Vac L-N / 216 - 280 L-L / 3 x 187 - 3 x 242 Vac	
Input frequency synchronization range	57 - 63 Hz	
Input Power Factor	> 0.99 typical	
<b>AC Output Data (for rating, refer table 2 on page 4)</b>		
Peak Efficiency AC to AC / DC to AC @80% load	94.5% / 91.9%	
Output Voltage	120 / 240 split phase / 3x208 Vac + N three phase (for rating and power, refer table 2 on page 3)	
Frequency / accuracy on battery	60 Hz / 0.03%	
Short time overload capacity	125% for 15 seconds	
Output THD	< 1.5% with resistive load, < 5% with non-linear load	
Crest Factor at Nominal Power	3:1	
Waveform	Pure Sine Wave	
Output Voltage stability static / dynamic	± 1.0% from 10 to 100% load / ± 5% recovering time below 0.5 sec from 0 to 100% impact	
<b>Battery Characteristics</b>		
Battery Type	Integrated, Sealed, Non-spillable	
Battery Replacement	Field-replaceable	
Battery Technology	Nickel-zinc battery chemistry	
Transportation	Air ride and strap to truck	
UPS run time on battery	5 minutes 3 string 12 blocs at 47kW	5 minutes 5 strings 20 blocs at 100kW
<b>Communications</b>		
Ports	2 x Ethernet, 1 x Modbus (RS485), TCP/IP, SNMP Protocols (Standard)	
Relay Outputs	Two digital inputs, four configurable alarm relays and two dedicated relays for major and minor alarms	
Battery Disconnect	LVD & Breaker	LVD (Internal) & Breaker
Module LED's / Monitoring	Three status LED's / Inview X with 7" touchscreen	
<b>Features</b>		
Ethernet SNMP Interface	Yes	
Power Event Log	Event log captures up to 5000 events as FIFO	
Web-based Software (served from product)	Accessible locally or remotely	
Service Contract	Silver - Gold - Platinum	
<b>Mechanical</b>		
	<b>1 cabinet including batteries</b>	<b>2 cabinets Power + Battery</b>
Height x Width x Depth	83.0 in x 23.6 in x 31.5 in	83.0 in x 47.24 in x 31.5 in
Weight (with batteries)	1265 lbs	2520 lbs
<b>Agency Compliance</b>		
UL/CSA	UL1778 (Fifth Edition), CSA-C22.2 No. 107.3, NiZn Batteries: UL1989	
FCC	Part 15 Class A	
RoHS	Compliant	

\*All Specifications Valid at 25°C \*All Specifications Subject to Change

**Table 1: UPS AC input utility ratings**

Code	Models Maximum Ambient Temperature: 40° C	Number of modules	Rated Power		Voltage Nominal	Rated Current Nominal	Recommended Breaker
			kVA	KW			
	UPS Product code	Pces			Vac	(A)	(A)
A	NxtGn-UPS-0Z5-048-100-3-100-048-048-208	45 + 3*	123.75	101.25	3 x 120/208	318.8	450
B	NxtGn-UPS-0Z5-048-100-3-080-039-039-208	36 + 3*	99.00	81.00	3 x 120/208	255.0	350
C	NxtGn-UPS-0Z5-048-100-3-060-030-030-208	27 + 3*	74.25	60.75	3 x 120/208	191.3	250
D	NxtGn-UPS-0Z5-048-100-2-067-032-032-240	30 + 2*	82.50	67.50	2 x 120/240**	318.8	450
One Cabinet System							
E	NxtGn-UPS-0Z5-024-050-3-047-024-024-208	21 + 3*	57.75	47.25	3 x 120/208	148.8	200
F	NxtGn-UPS-0Z5-024-050-2-030-016-016-240	14 + 2*	38.50	31.50	2 x 120/240**	148.8	200
G	NxtGn-UPS-0Z5-024-050-1-030-016-016-120	15 + 1*	41.25	33.75	120	318.8	450

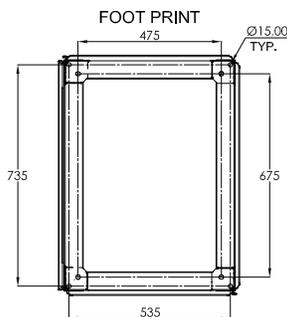
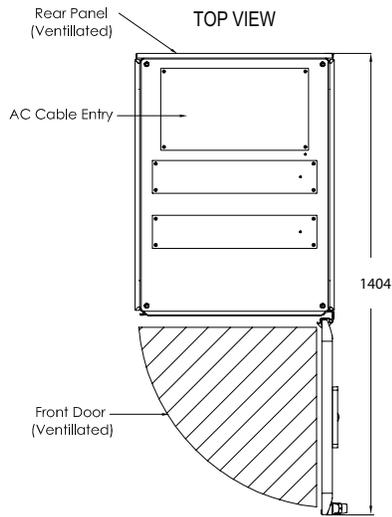
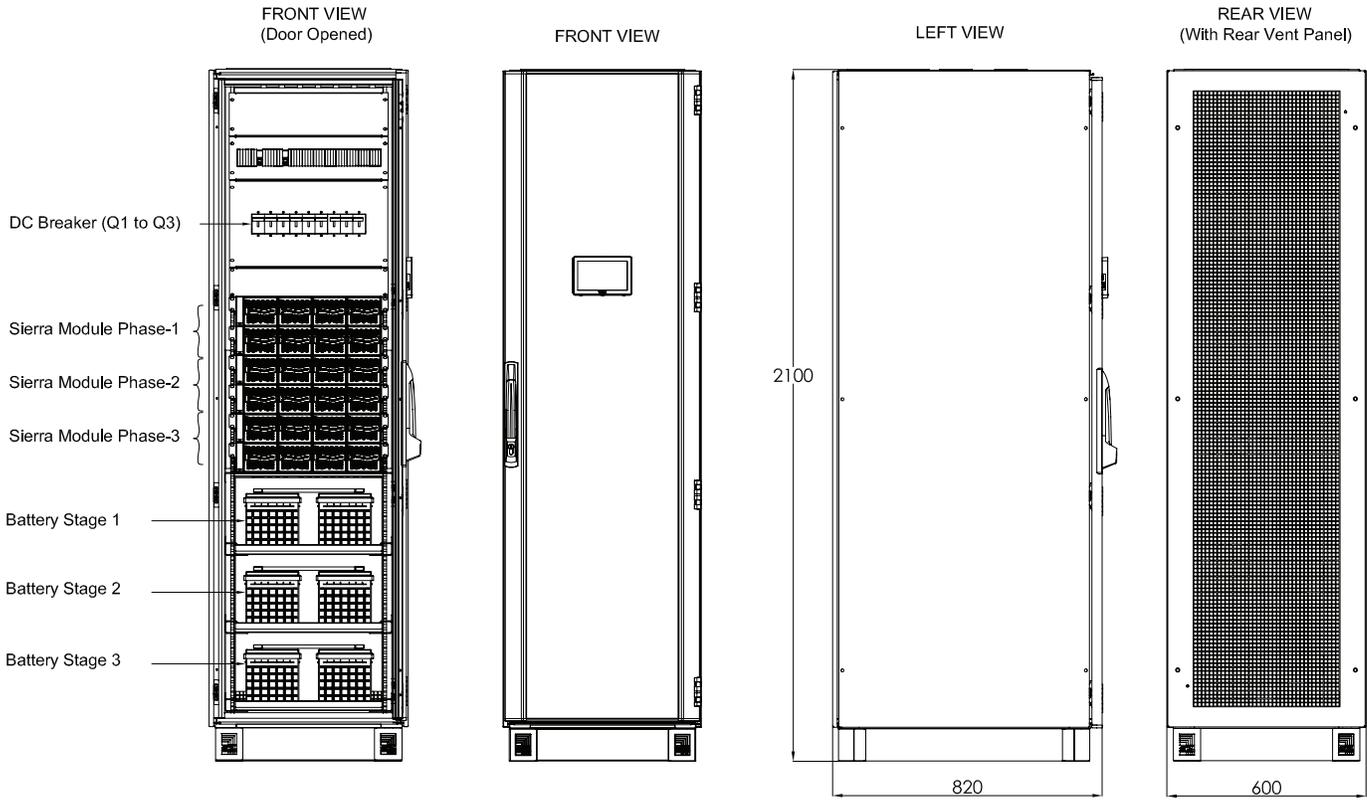
**Table 2: UPS AC output ratings**

Code	Models Maximum Ambient Temperature: 40° C	Number of modules	Rated Power		Voltage Nominal	Rated Current Nominal	Recommended Breaker
			kVA	KW			
	UPS Product code	Pces			Vac	(A)	(A)
A	NxtGn-UPS-0Z5-048-100-3-100-048-048-208	45 + 3*	123.75	101.25	3 x 120/208	343.8	450
B	NxtGn-UPS-0Z5-048-100-3-080-039-039-208	36 + 3*	99.00	81.00	3 x 120/208	275.0	350
C	NxtGn-UPS-0Z5-048-100-3-060-030-030-208	27 + 3*	74.25	60.75	3 x 120/208	206.3	250
D	NxtGn-UPS-0Z5-048-100-2-067-032-032-240	30 + 2*	82.50	67.50	2 x 120/240**	343.8	450
One Cabinet System							
E	NxtGn-UPS-0Z5-024-050-3-047-024-024-208	21 + 3*	57.75	47.25	3 x 120/208	160.4	200
F	NxtGn-UPS-0Z5-024-050-2-030-016-016-240	14 + 2*	38.50	31.50	2 x 120/240**	160.4	200
G	NxtGn-UPS-0Z5-024-050-1-030-016-016-120	15 + 1*	41.25	33.75	120	343.8	450

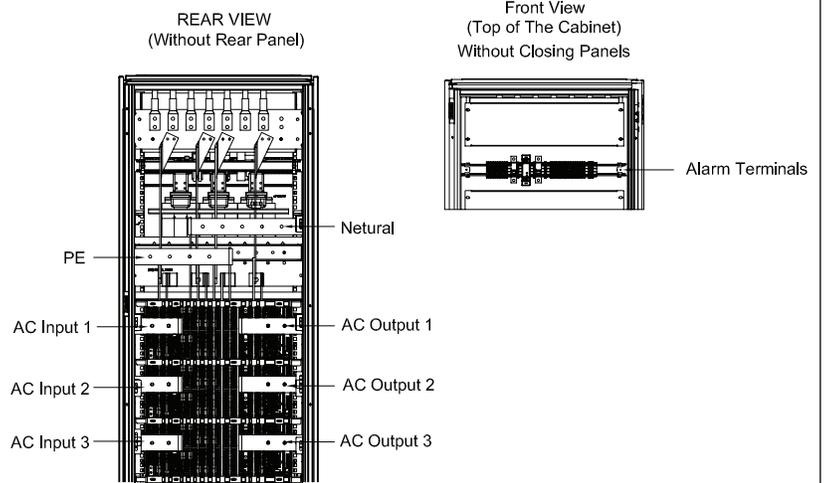
\* Extra module for N+1 redundancy

\*\* or 120/208 by setting

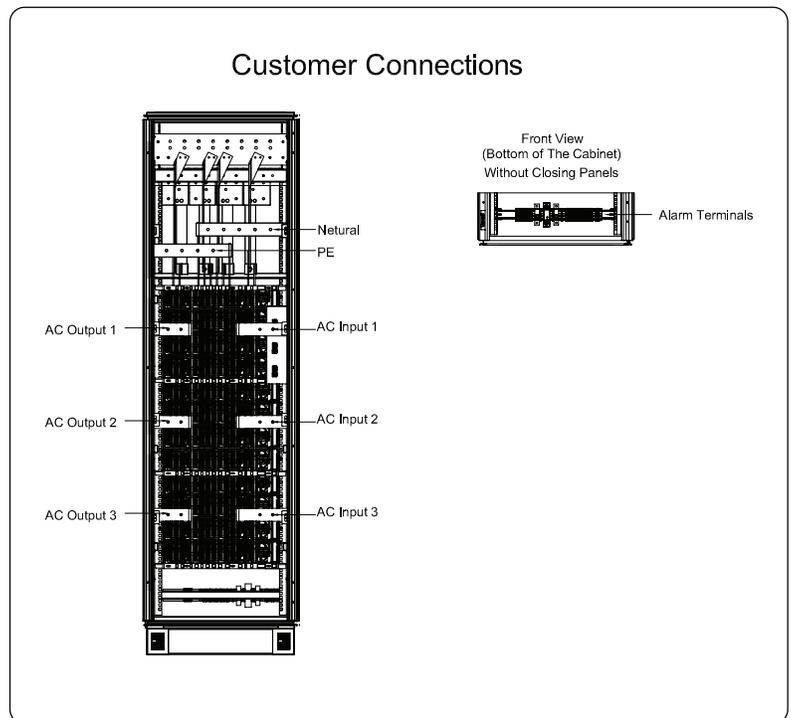
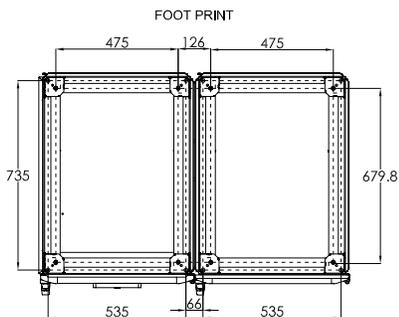
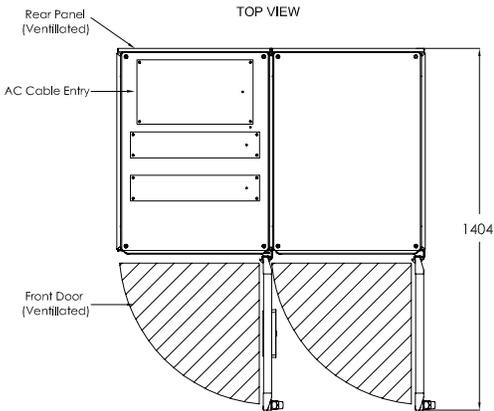
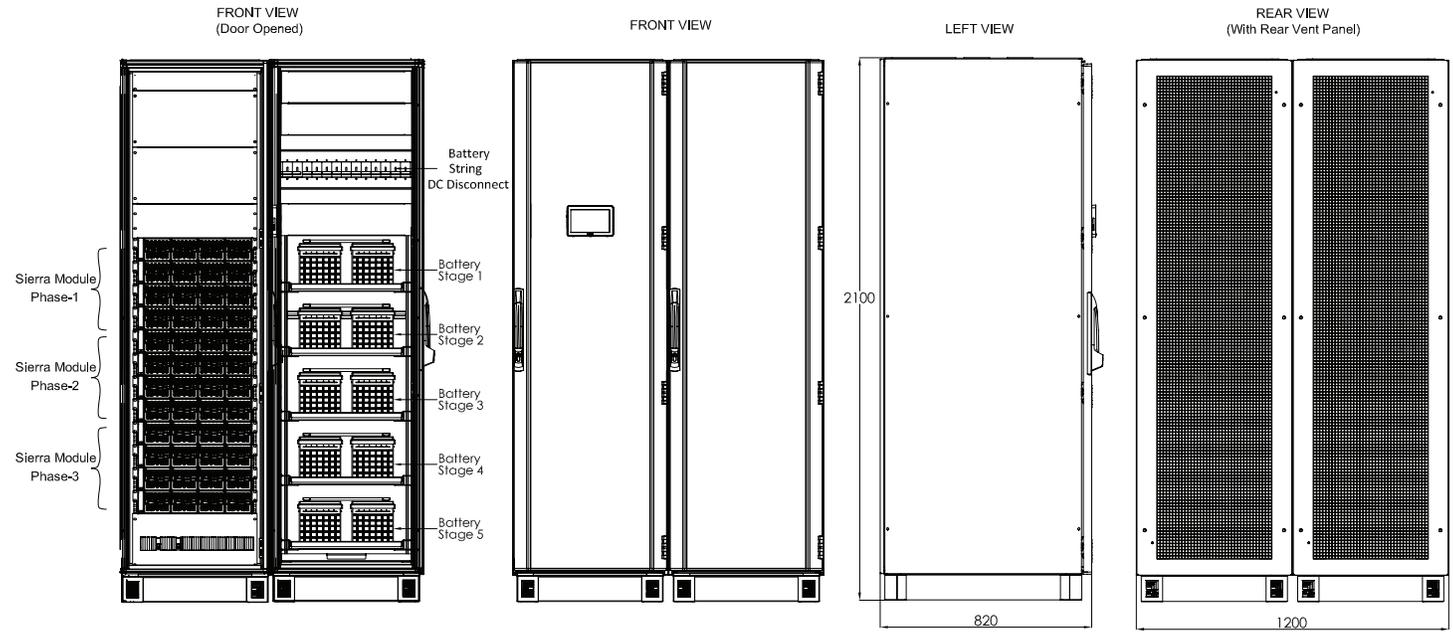
# NextGen UPS System - 50 kW - General Arrangement



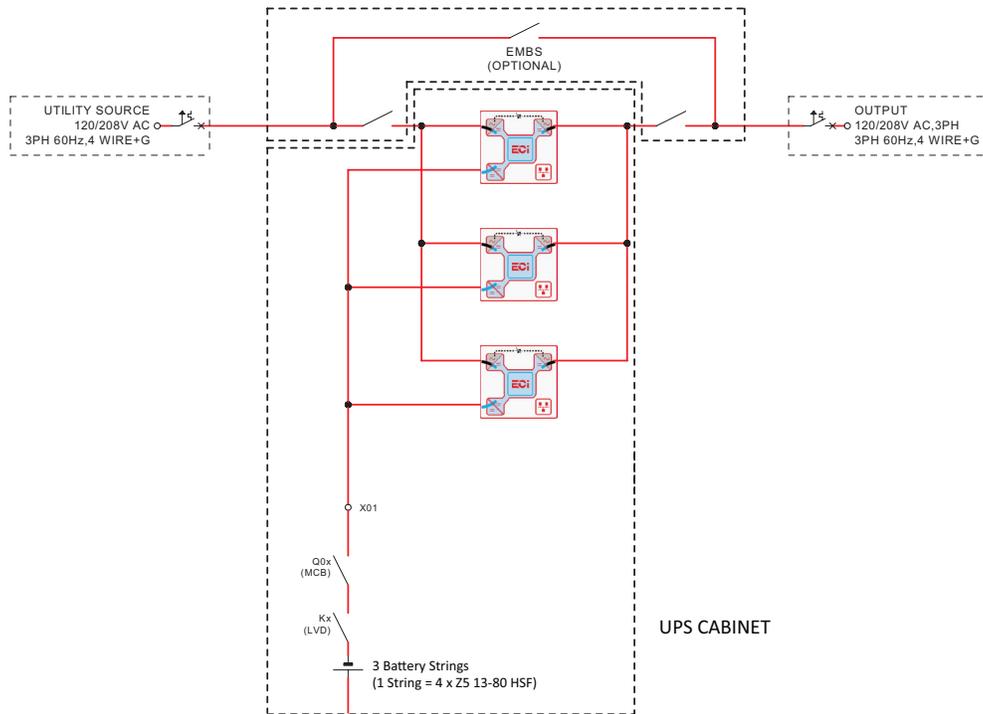
## Customer Connections



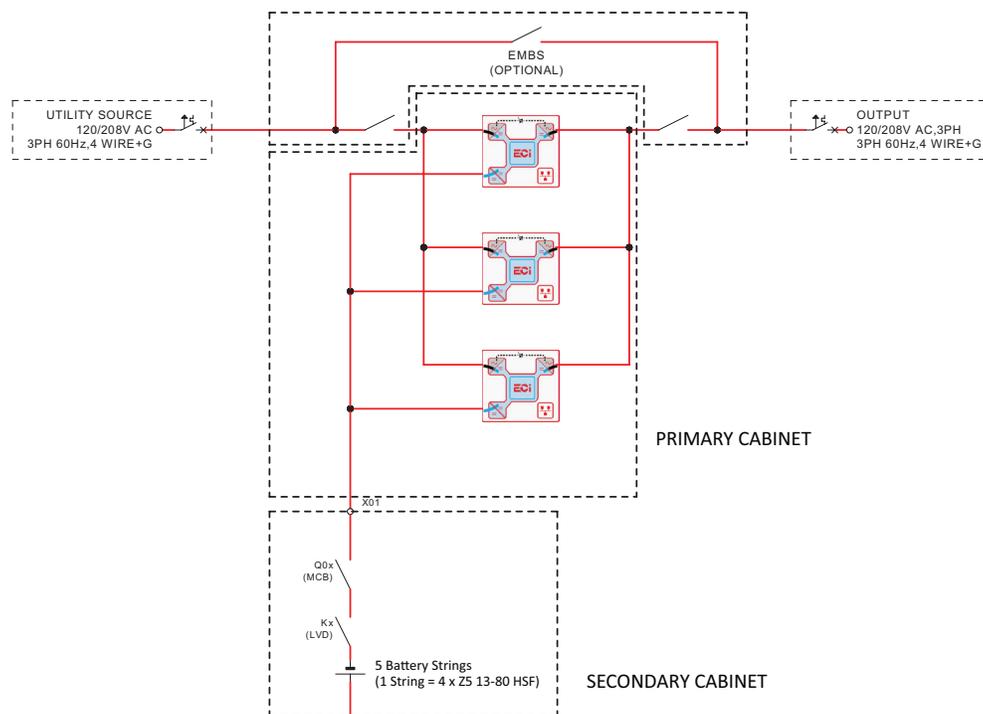
# NextGen UPS System - 100 kW - General Arrangement



## NextGen UPS System - 50 kW - SLD



## NextGen UPS System - 100 kW - SLD



NextGen UPS Split phase or Three phase - Zinc Five - Datasheet - v1.0 Specifications can change without notice. New data will be updated on our website: [www.cet-power.com](http://www.cet-power.com).  
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