

# SPECTRA 7100 SERIES



Online UPS

**• Input voltages wide selections:**  
**1 phase 220V, 1 phase 120V/220V, 3 phase 380V/220V, 3 phase 208V/120V**

We offer different input voltage selections for self-contained UPS module according to power requirements: single phase 220V, single phase 120V/220V, 3 phase 380V/220V, and 3 phase 208V/120V.

**• Up to 3 sets of rack-independent true double-conversion on line UPS**

100 SERIES can be installed up to 3 sets of rack-independent online UPS. Each UPS is self-contained design with true double-conversion technology to provide maximum reliability and flexibility

**• N1+ parallel redundancy for power safety and reliability**

N1+ technology allows a flexible adjustment of UPS power capacity all the time. Should any one UPS is malfunctioning, other UPSs will back up the load immediately. It increases power safety and reliability.

**• Built-in isolation transformer in input and output**

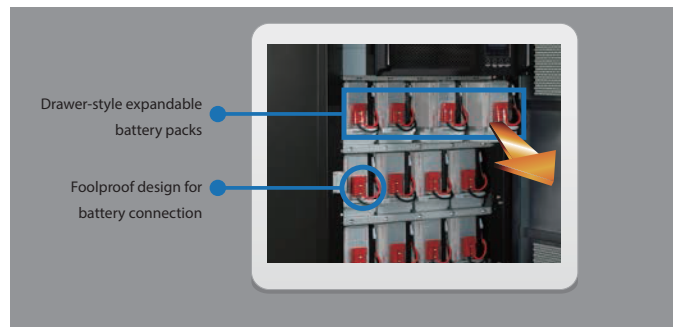
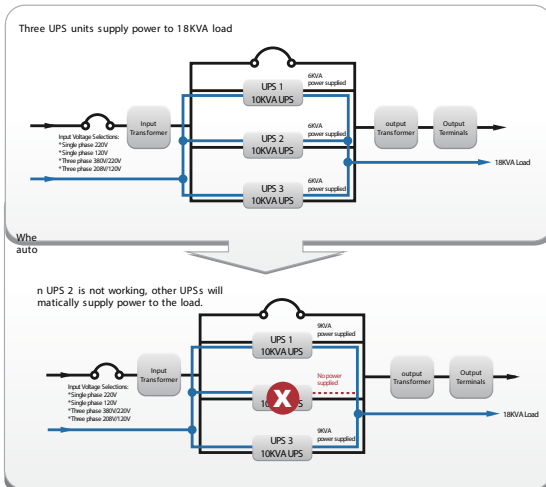
7100 SERIES system is equipped with input/output isolation transformer boxes. It will guarantee %100 protection against unexpected AC power problems.

**• Modular design with minimum MTTR**

7100 SERIES system is built in modular design to simplify the maintenance and upgrades with very low

**• Independent, expandable and modular battery packs for scalable runtime**

This UPS system is designed to connect to external battery packs and easy to extend runtime by adding battery packs. We offer drawer-style battery packs to fit into 19" chassis. To avoid any errors, it's foolproof design for connection. It simplifies the procedure of maintenance and runtime expansion.



**• Built-in maintenance bypass switch for easy maintenance without interruption**

Maintenance bypass assures continuous power to critical loads during UPS maintenance.

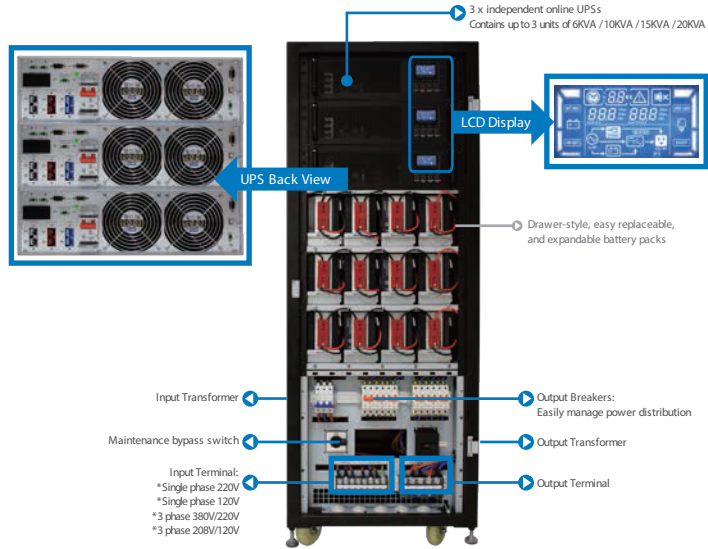
**• Perfect medium power protection**

7100 SERIES provides perfect medium power protection with redundancy for mission critical loads, server room, data center, and telecom applications.

## Modular Power Solution for Your Critical Load

7100 SERIES is entirely self-contained to allow each UPS module to work with complete functionality. Its modular design allows easy to service and upgrade with low cost MTTR. It also can be parallel operated with N+1 redundancy for power safety and reliability. Ensure system can contain up to 3 sets of rack-independent online UPS modules, can battery packs, and input/output transformer boxes. It's perfect power protection for server room, data center, telecom applications and mission-critical loads.

## Parallel Redundancy Rack Online UPS System:



## 7100 SERIES Online UPS Selection Guide

MODEL	7100 Series 18K	7100 Series 20K	7100 Series 3/1.30k	7100 Series 3/1.45k	7100 Series 3/1.60k
<b>TOTAL CAPACITY</b>	18KVA	20KVA	30KVA	45KVA	60KVA
<b>UPS UNITS</b>	3 x 6KVA	3 x 10KVA	3 x 3P/1P 10KVA	3 x 3P/1P 15KVA	3 x 3P/1P 20KVA
<b>TOPOLOGY</b>	True Double-Conversion Online with 2+1 Parallel Redundancy Design				
<b>INPUT</b>					
Input Voltage	380/220 VAC 3 Φ4w or 220 VAC 3 Φ3w or 208/120 VAC 3 Φ4w or 120 Vac 3 Φ3w or 220 VAC 1Φ2w or 120 VAC 1Φ2w		380/220 VAC 3 Φ4w or 220 VAC 1Φ2w		
Frequency Range	46 Hz ~ 54 Hz or 56 Hz ~ 64 Hz				
Power Factor	0.99 @ 100% Load				
<b>OUTPUT</b>					
Output voltage	1Φ2w*2 groups with output transformer, 104/208 VAC or 110/220 VAC or 115/230 VAC or 120/240 VAC				
AC Voltage Regulation	± 1%				
Frequency Range (Synchronized Range)	46 Hz ~ 54 Hz or 56 Hz ~ 64 Hz				
Frequency Range (Batt. Mode)	50 Hz ± 0.1 Hz or 60Hz ± 0.1 Hz				
Overload	AC mode	100%~105%: 10min; 105%~115%: 1min; >115% : 1sec			
	Battery mode	100%~105%: 30sec; 105%~115%: 10sec ; >115% : 1sec			
Current Crest Ratio	3:1 max				
Harmonic Distortion	3 % @ 100% Linear Load; 10 % @ 100% Non-linear Load				
Transfer Time	Line <sup>I</sup> Battery	0 ms			
	Inverter <sup>I</sup> Bypass	0 ms			
	Inverter <sup>I</sup> ECO	<10 ms			
<b>EFFICIENCY</b>					
AC Mode	> 82 %		> 82 %		
Battery Mode	> 81 %		> 81 %		
<b>BATTERY</b>					
Type & Numbers	12 V / 7 Ah x 20 pcs (Expandable to 40pcs) / Per UPS Module	12 V / 9 Ah x 20 pcs (Expandable to 40pcs) / Per UPS Module	12 V / 9 Ah x 20 pcs x 2 sets/per UPS module		
Recharge Time	3-4 hours recover to 90% capacity				
Charging Current	2 A ± 10% (max.)				
Charging Voltage	273VDC ± 1%				
<b>PHYSICAL</b>					
Single UPS	Dimension, D x W x H(mm)	580 x 438 x 133 [3U]	668 x 438 x 133 [3U]	668 x 438 x 133 [3U]	668 x 438 x 266 [6U]
	Net Weight (kgs)	17	20	22	45
Whole System	Dimension, D x W x H(mm)	860 x 560 x 1450			860 x 560 x 1870
	Net Weight (kgs)	500	610	460	660
<b>ENVIRONMENT</b>					
Operation Temperature	0 ~ 40°C (the battery life will down when > 25°C)				
Operation Humidity	< 95 % and non-condensing				
Operation Altitude**	<1000m				
Acoustic Noise Level	Less than 58dB @ 1 Meter (for Single UPS)			Less than 60dB @ 1 Meter (for Single UPS)	
<b>MANAGEMENT</b>					
Smart RS-232 or USB	Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8, Linux, Unix, and MAC				
Optional SNMP	Power management from SNMP manager and web browser				

Product specifications are subject to change without further notice