

UniStar III LA



Features at a Glance

- Tower or Rack Mount to Meet Your Installation Needs
- Unity Input Power Factor for maximum efficiency
- Easy Maintenance and Swappable Battery
- Smart Battery Management
- Matching Battery Cabinets
- Complete Circuitry Protection
- Optional Automatic and Manual Bypass for Maintenance

The UniStar IIIA is a sophisticated yet affordable single phase UPS system. It offers online technology and a wide input voltage range to provide a constant clean, steady sinewave to protected equipment, even without going to battery mode. It can instantly switch to battery, and its battery management system and easy, swappable battery packs make maintenance trouble free.

Microprocessor Control

The UniStar IIIA's advanced microprocessor control gives you greater reliability, functionality and smaller size than other designs. The systems feature high overload handling without transfer to the bypass. You are also protected in case of short circuit or over-temperature conditions.

Easy Plug and Play Design

The UniStar IIIA is easy to install. Units up to 2kVA come standard with input cables and IEC output cables, so all you have to do is plug the unit into your utility power and plug the equipment you want protected into the back of the unit. Turn it on and you're done! Every UniStar IIIA unit automatically senses the operating frequency, and adjusts accordingly.

User Friendly Control Panel

The user friendly display clearly communicates the UPS status, and makes diagnostics a trouble free task. The standard communications software allows for easy control and shutdown of your protected equipment during a blackout, and also lets you remotely perform diagnostics, communicate to the UPS via SNMP/web/network adapter, access UPS functions through the web, and receive alerts about specific events via SMS messages. The free software supports Novell Network, Windows 95/98/2000/Me/XP/NT, Linux, and FreeDSB. Major Unix platforms are also available.

Communications

The UniStar IIIA comes standard with shutdown software. The software gives you control of the UPS, and allows a graceful shutdown when the utility power fails, and gives you the ability to:

- Remotely test major operating functions of the UPS
- Communicate via SNMP/web/network (with adapter card)
- Access UPS functions via the web
- Receive SMS alerts when specific events occur

A standard RS232 interface or optional USB interface allow you to communicate with the UPS through a network or computer. The standard software is compatible with Novell NetWare, Windows 95/98, Windows NT, Windows XP, or other Windows operations, Linux, and Free BSD.

The UniStar IIIA also has SNMP adaptability through an optional SNMP card. Optional AS/400 or True Relay Interface cards also give the ability to remotely monitor the UPS using a variety of computing platforms.

Communications Options

True Relay Card

A 10-pin terminal is supported to offer the signals of Bypass, Utility Normal/Failure, Inverter On, Battery Low, Battery Bad, UPS Alarm, and UPS Shutdown.

AS/400 Card

A DB9 port is supported to offer the signals of Bypass, Utility Normal/Failure, Inverter On, Battery Low, And UPS Shutdown.

WEB/SNMP Card

Integrates multi-network communication protocols to enable comprehensive, easy-to-understand and secure remote monitoring and management of the UPS via the Internet.

USB Card

To provide an alternative USB communication port.

Precision Power Conditioning

- Tight Voltage Regulation
- Frequency Isolation
- Good Harmonic Reduction
- Unity Power Factor Input, with .5 Lagging to Unity
- Short Circuit Protection
- Transient Protection

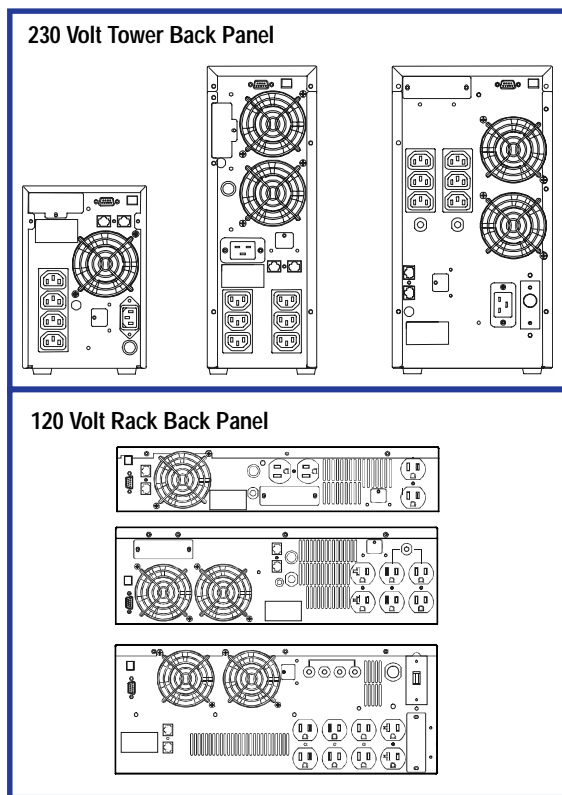
Batteries

Batteries are the most expensive component of a UPS system. Protect them and extend their life with the Smart Battery Management System (SBMS). SBMS continuously monitors battery status and recharges whenever necessary, so you have worry-free battery power.

Hot swappable batteries allow you to easily change batteries without shutting the UPS down. Matching battery cabinets make your UniStar III/LA look great and allow you easy battery access.

Battery Run Time Reference

# Strings		Run Time Minutes (% Load)			
		25% / 175W	50% / 350W	75% / 525W	100% / 700W
1kVA	Internal	49	20	11	7
	2	120	49	29	20
	3	200	83	49	34
	4	281	120	72	49
	5	370	159	96	66
	6	465	198	120	84
	7	555	240	146	102
	8	646	281	171	120
<i>Up to 13 strings available.</i>					
2 kVA	Internal	49	20	11	7
	2	120	49	29	20
	3	200	83	49	34
	4	281	120	72	49
	5	370	159	96	66
	6	465	198	120	84
	7	555	240	146	102
	8	646	281	171	120
<i>Up to 11 strings available.</i>					
3 kVA	Internal	42	17	9	6
	2	103	42	25	17
	3	172	72	42	29
	4	246	103	62	42
	5	322	137	82	58
	6	401	172	103	72
	7	482	208	126	86
	8	566	243	149	104
<i>Up to 11 strings available.</i>					



Physical Data

Model	Part Number	Dimensions, Inches (mm)	Weight, lbs (kg)	Input	Output Receptacles
1 kVA, 120 VAC, Tower	SC10001T	5.75 x 9.2 x 15.8 (147 x 233 x 401)	33 (15)	5-15P	4 ea 5-15R
2 kVA, 120 VAC, Tower	SC20001T	5.4 x 14.4 x 18.9 (130 x 365 x 479)	60 (28)	5-20P	4 ea 5-15R, 2 ea 5-20R
3 kVA, 120 VAC, Tower	SC30001T	7.5 x 14.4 x 17.8 (190 x 365 x 453)	79 (33)	L5-30P	6 ea 5-15R, 2 ea 5-20R
1 kVA, 230 VAC, Tower	SC10002T	5.75 x 9.2 x 15.8 (147 x 233 x 401)	33 (15)	IEC320	4 ea IEC320
2 kVA, 230 VAC, Tower	SC20002T	5.4 x 14.4 x 18.9 (130 x 365 x 479)	60 (28)	IEC320	6 ea IEC320
3 kVA, 230 VAC, Tower	SC30002T	7.5 x 14.4 x 17.8 (190 x 365 x 453)	79 (33)	IEC320	6 ea IEC320
1 kVA, 120 VAC, Rack Mt.	SC10001RM	17.4 x 3.5 x 15.2 (2U) (443 x 88 x 385)	35 (17)	5-15P	4 ea 5-15R
2 kVA, 120 VAC, Rack Mt.	SC20001RM	17.4 x 5.2 x 18.9 (3U) (443 x 132 x 481)	64 (30)	5-20P	4 ea 5-15R, 2 ea 5-20R
3 kVA, 120 VAC, Rack Mt.	SC30001RM	17.4 x 6.9 x 19.0 (4U) (443 x 176 x 482)	86 (38)	L5-30P	6 ea 5-15R, 2 ea 5-20R
1 kVA, 230 VAC, Rack Mt.	SC10002RM	17.4 x 3.5 x 15.2 (2U) (443 x 88 x 385)	35 (17)	IEC320	4 ea IEC320
2 kVA, 230 VAC, Rack Mt.	SC20002RM	17.4 x 5.2 x 18.9 (3U) (443 x 132 x 481)	64 (30)	IEC320	6 ea IEC320
3 kVA, 230 VAC, Rack Mt.	SC30002RM	17.4 x 6.9 x 19.0 (4U) (443 x 176 x 482)	86 (38)	IEC320	6 ea IEC320

Technical Specifications

Model	1,000 VA	2,000 VA	3,000 VA
Input			
Voltage (VAC)	80 - 140 or 160 - 280		
Frequency	50/60 +/- 5% (Auto Sensing)		
Phase	Single		
Input Power Factor	>0.98 (Full Load)		
Output			
Voltage (VAC)	100/110/120 or 220/230/240		
Capacity (VA/W)	1000VA/700W	2000VA/1400W	3000VA/2100W
Rated Power Factor	0.7 Lagging		
Load Power Factor Range	0.5 Lagging to Unity within KW Rating of Unit		
Wave Form	Sine Wave, THD <3% (no load to full load)		
Voltage Regulation	+/- 2%		
Transient Response (ms)	+/- 4% Under Full Load, Change and Corrected within 60 ms		
Frequency Stability	+/- 0.5 Hz (Free Running)		
Synchronization	Slew Rate: 1 Hz/Sec. Max Synchronizing Window +/-5%		
Transfer Time	0 ms		
Crest Factor	3:1		
Run-time (Full Load)	>7 min.	>7 min.	>6 min.
DC Start	Yes		
Display			
LED Indicators	Utility, Battery Low, Inverter, Bypass, Test OK, Overload Fault, Load/Battery Level, and Fault conditions		
Self Diagnostics	On-Demand Push Button		
Alarms			
Audible and Visual	Line Failure, Battery Low, Transfer to Bypass, Overload, System Fault Conditions		
Environmental			
Operating Temperature	0° C - 40° C		
Altitude	0 - 2,000 m up to 40° C. 3,000 m up to 35° C.		
Humidity	90% RH Maximum, Non-condensing		
Noise	< 45 dB at 1 meter		
Safety Conformance			
Quality Assurance	ISO 9001:2000 Certified Company		
Safety Standard	EN500091-1, UL1778		
EMC Standard	EN500091-2, EN61000-3-2, EN61000-3-3, FCC Class A		
Agency Marks	CE, UL		
Battery			
Type	Sealed Lead Acid Maintenance Free		
Quantity per string (pcs)	3	6	9
Voltage (VDC)	36	72	96
Recharge Time	8 hours to 90%		
Optional Charger	200W or 500W for extended backup applications		

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