

SYSTEL ON-LINE UPSes SPECIFICATIONS

POWER MANAGER SERIES	PM1500 (Tower Model)*		
MODELS 230VAC	PM1000-23	PM1500-23	PM2000-23
MODELS 120VAC	PM1000-12	PM1500-12	PM2000-12
INPUT			
Voltage - Mains or Generator	Model 230VAC: 230VAC +15% -30%, Model 120VAC: 120VAC +15% -25%		
Frequency	60 Hz or 50Hz \pm 30%		
Protection	Slow blow fuse and MOVs 200 Joules/6 KA		
Fuse	Model 230VAC -10A Model 120VAC -15A	Model 230VAC - 10A Model 120VAC - 20A	Model 230VAC- 15A Model 120VAC -25A
OUTPUT (Mains or Battery source)			
Voltage	Model 230VAC: 230VAC or 120VAC optional Model 120VAC: 120VAC or 230VAC optional		
Wave Form	Pure Sinewave		
Wave Distortion	<u>LOAD(%)</u>	Linear Load	THD Max (%)
	0 - 100	Non-Linear Load C.F.4	1.5
	0 - 50	Non-Linear Load C.F.4	3.0
	50 - 100	Non-Linear Load C.F.4	5.0
Regulation	(For the combined effects of line-frequency range, temperature and battery-voltage- range excursion)		
Steady State 0-100% load change	\pm 2% for Linear Load, +2% -5% for Non-Linear Load (Line operation or Battery to 1.9 Volt/cell)		
Dynamic - (Recovery time to steady state)	100% Load Change	250 Microsec	
	1000% Load inrush (eqv.)	3 Msec	
Frequency (Mfg.Selectable)	Model 230VAC: 50Hz (60Hz optional), Model 120VAC: 60Hz (50Hz optional)		
Capture Range Setting Limits	Synchronized to Mains Frequency - Normal Operation Mode \pm 1% or \pm 5% (Selectable by internal switch or by Power Manager Software)		
Capture Slew Rate	Slower than 1Hz/sec.		
Frequency Stability	\pm 0.05% (on Free Running Mode)		
LOAD CHARACTERISTICS			
Repetitive Peak Power	3700VA	5500 VA	5500 VA
Steady State Power Non-Linear Load	1000 VA	1500 VA	2000VA
Linear Load	700 W	1050 W	1300 W
Current Crest Factor	Higher than 6 : 1		
Load Power Factor	0 to 1 leading or lagging at rated VA. Continuous operation with P.F. 0.6 to 1.0		
Inrush Current	Above eqv. 1000% to start up Electronic, Motorized, Laser loads.		
Switch-On Behavior	The UPS can be switched on under any load conditions.		
Overload Behavior (typical)	200%	150%	125%
% of Rated Power	Reinforced models: up to 4 min. (Standard models: during 3 sec.)		
Short Circuit Current	250%	200%	150%
	% of UPS Rated Current continuous during holding time (3 sec)		
PROTECTION			
Output Overvoltage	Electronic/Software Overvoltage Control Algorithm plus Hardware Protection by Tranzorb at UPS output		
DC Component	Power Shutdown if DC component exceeds 0.5 VDC		
Short Circuit	Automatic UPS Shutdown after holding time (3 sec. - std.)		
Overload Protection	By the Delayed Power Shutdown Algorithm		
Self Recovery from Momentary Shorts	Within 500 microsec to 100% rated power (if overload or short is cleared before Power Shutdown)		

INTERNAL BATTERY PACKAGE (External Battery Package optional)		
Voltage	96VDC	
Type	12V Maintenance-free sealed cells	
Battery Construction	8 Batteries x 6Ah or 7Ah	
Back-Up Time (**)	25 min	14 min 10 min
Recharge Time (Typical)	6 hours to 80% of charge	
Protection Fuse	20A SB	
Overcharge/ Overvoltage (Mfg. Programable)	2.66 Volt per cell (battery or control failure) initiates the Delayed Power Shutdown Algorithm	
Battery Discharge (Undervoltage)	Low threshold voltage activates UPS Shutdown (Mfg. programmable)	
Charging Method (UPS typical program)	Constant Current to 2.45Volt per Cell followed by Constant Voltage at 2.45V/C for 2 hours followed by Trickle Charge mode at a continuous 2.30 V/C	
Battery Test (UPS & Software Programmable)	Automatic Daily Battery Loading Test Algorithm. Software status reports: Back-up time in minutes, Charge mode & Charge level. UPS & Software Alarm: Low Battery- Weak Battery	
PHYSICAL		
Dimensions- H x W x L cm (inches)	Tower Model: 28.5(11.2) x 19(7.5) x 49(19.3) Rackmount Model: 177.0(7) x 482.6(19) x 497.0(19.6)	
Weight (Including batteries)	Tower Model: 32 Kg/ 71 lbs Rackmount Model: 42 Kg/ 93 lbs	
CONNECTION (Rear Panel)		
Output Power	Model 230VAC: Two CEE-22 Model 120VAC: Four (4) Nema type AC Power 5-15R outlets	
Computer Interface (DB-9)	-RS232 links the SYSTEL POWER MANAGER Monitoring and Control Software Packages -Isolated contacts compatible with Netware (Novell, Inc) VINE (Banyan Corp.) or similar.	
CONTROLS (Front Panel)		
ON/OFF Switch	Manual Start / Shutdown of the UPS	
T.R.S. Pushbutton	Alarm Silence, UPS and Battery Test, UPS Restart. All Leds light when button is pressed for UPS and Battery Test	
LED Indicators	On Mains - Green On Battery - Yellow Overload/Fault - Red Low Battery - Red	
ENVIRONMENTAL		
Operating Temperature	32°F to 104°F / 0°C to 40°C	
High Temperature Protection	Excessive Temperature Thermal switch initiates UPS Power Shutdown. Automatic recovery after cooling down	
Audible Noise	Less than 45 dB	
Cooling Methods	Fans	
STANDARDS & SAFETY		
Complies with: UL, cUL, CE-EN 500091-1/93, EN 50081 & EN 50082 (EMC) - FCC Class A, IEEE 587 Cat B, Novell.		

Specifications are subject to change without notice

* For Rackmount models, ask for PM2000-RM Series specs.

** For maximum load



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