



✓ True Green Power

✓ True On-line

Technology Associates:





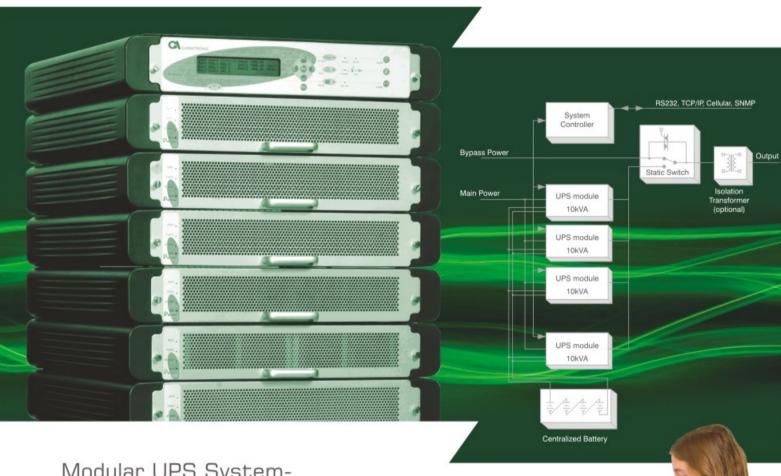
Ador Powertron Ltd., is a leading and reputed company in Digital Power Electronic which is a part of the renowned, 55 years old prestigious 'ADOR' group. Ador is a complete solution provider in designing, manufacturing and commissioning of complex and customized Power electronic equipments for various industries.

Ador has technology alliance with the world leader in Power Electronics M/s. Gamatronic Electronic Industries Ltd., Israel. Gamatronic has over 35 years of experience in high-end pure power UPS solutions.

"POWER" true online modular Uninterrupted Power Supply - UPS system based on True Online Battery Topology, upgraded from 10kVA-500kVA at any type without interrupting the load. POWER* has maximum safety without transferring the load to bypass source.

Ador-Gamatronic POWER* UPS is the next generation system especially designed with unmatched reliability, pure Power quality and very high electrical efficiency for critical enterprise networking applications, Data Processing Machines, Servers, VSAT Communication Networks, Switching equipments, Network Process Control, Telecommunication, Life saving medical applications and such other applications where systems availability cannot be comprised at all.

The **POWER**⁺ is a superb concept in UPS technology and marked the beginning of a new generation of UPS.



Modular UPS System-

- Hot Swap Plug-In Modules
- Redundancy
- Flexibility & expansion option
- Incredible Power density (volume per capacity)
- Management & communication options
- User and environment friendly system
- Smaller footprint
- Lower heat Dissipation





Parallel Redundant Structure

POWER⁺ is a parallel redundant UPS. The system comprises from 1 to 10 UPS modules each of 10kVA, a system controller, Centralized static switch module and distribution block. It can be configured as a 3/3, 3/1 or a 1/1 system in short safer load.

Flexibility and Modularity

POWER⁺ gives you maximum flexibility - it can be extended as the load increases by simply sliding in required modules.

POWER⁺ is truly Modular - Ungradable from 1 to 10 modules, each of 10kVA, allowing you to assemble a UPS system of 100kVA.

Green Power System

POWER⁺ is based on green Power technology. The system has a unity input Power factor (0.99) and very low input THD. It operates in Continuous Current Mode (CCM), reducing line interferences (RFI/EMI).

In short clean environment!

Active Current Sharing

The system has active current sharing at the input/output and battery.

In short higher reliability!

True On-Line Battery VFI

POWER⁺ is designed according to IEC-62040-3 standard: "The Inverter always supplies power to the load and it takes its power either from the A.C. input via the Rectifier or from the Battery. The Rectifier has to be controlled so as to recharge and maintain the battery in a charged condition". In other words, the Battery is connected between Rectifier output and Inverter input on common DC link.

High Efficiency

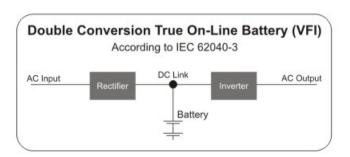
POWER⁺ has an output efficiency of up to 96% and 98% efficiency during backup mode. In short savings on electricity bills!

Light & Compact Only 9Kg per module!

POWER* light weight and small dimensions allows for easy maintenance, reduced shopping costs and smaller foot print.

Decentralized Static Switch for Parallel Operation

In parallel system configuration, POWER⁺ systems operates in a decentralized mode, where internal static switches of all the systems are synchronized. This ensures that all units can transfer to static switch bypass simultaneously without the addition of external static switches - lowering expenses and eliminating a significant potential point of failure.



Technical Specifications

Topology Construction						True Online Battery, Double Conversion VFI Modular Parallel Hot-Plugged Module, Continuous Operation							
INPUT			noddiai i a	anorrio	t i iuggo	a iviodalo,	Continue	лаз орона	ition				
Voltage		3	X 400V +	N									
Voltage Range			20%, +1	5%									
Current			5A (max) p		e module	, no inrust	n current a	at startup					
Frequency			7-63 Hz										
Power Factor		0	.99										
THDi		5	% on nomi	nal load									
OUTPUT													
Rated Power			0kVA/8kW			V							
Frequency Tracking Range			±1, ±2, ±		lectable)								
Frequency (in free running mode)			0/60Hz ±	0.1%									
Slew Rate			Hz/sec										
Voltage			X400+N										
Static Regulation			±1%										
Regulation for unbalanced load			% for 1009	% unbala	ince load								
Dynamic Response to 100% load step Overload			±2%) min . d	250/ for 0	0.000 - 10	000/ for t	ouala					
Wave form			10% for 10 Sinusoidal	7mm.; 17	25% 1016	o sec.; 10	101 %000	cycle					
THD			< 2% for lir	nar laad	- 50/ fr	rnon line	parload						
Load CF			:1	leal load	1, < 57010	וווו-ווטוו ונ	ear roau						
AC-Ac Efficiency (nominal)			lp to 96%										
DC-AC Efficiency (nominal)			lp to 98%										
BATTERIES			p to 30 %										
Type		S	ealed Mai	ntenance	e Free (SN	ЛF) VRLA	Tubular I	ead acid					
DC-Link Voltage			±340 to 42		31100 (01	, , , , , ,	rabaiari	oud dold					
No. of Batteries			4 X 12V										
GENERAL													
Maximum Power dissipation (Po=8kw)		3	33W (113	6 BTU) fo	or a single	e module							
Ambient Temperature		-	10°C to +	40°C (op	perating)	-20°C to -	+60°C (S	torage)					
Relative Humidity		9	5% Max no	n-conde	ensing								
Altitude		1	500m w/o	derating	J								
Enclosure			P20										
Cooling		F	orced-Mu	lti-Fan w	ith speed	control							
LCD DATA DISPLAY													
Input	Voltage, Current, Frequency												
Output		Voltage, Current, Frequency											
				Voltage Last 200 events									
Log event memory STANDARDS		L	ast 200 ev	ents									
EMC Emission		-	N50001 2	Class A	- IEC 620	40. 2 Clas	e A			-			
Safety	EN50091-2 Class A; IEC 62040-2 Class A EN50091-1;IEC 62040-1-1												
Design	EN50091-1;IEC 62040-1-1 EN50091-3; IEC 62040-3												
Low Magnetic Field Radiation			MF as per		0100								
DIMENSION			ao poi	2.11111									
		8	8mm (2U)	X 483 (1	19") X 455	ōmm							
10kVA Module (H X W X D)			Kg	- 1									
		J											
10kVA Module (H X W X D) Weight POWER* System (Incl STSW and base modules)		3											
Weight	10kVA	20kVA		40kVA	50kVA	60kVA	70kVA	80kVA	90kVA	100kVA			
Weight POWER* System (Incl STSW and base modules)				40kVA 970	50kVA 1070	60kVA 1160	70kVA 1250	80kVA 1350	90kVA 1440	100kVA 1540			
Weight POWER* System (Incl STSW and base modules) Model	10kVA	20kVA	30kVA		1070		1250						
Weight POWER* System (Incl STSW and base modules) Model Dimension (mm) H W D	10kVA 690	20kVA 790	30kVA 880	970	1070 60 69	1160 0 (externa 0	1250 al)	1350	1440	1540			
Weight POWER* System (Incl STSW and base modules) Model Dimension (mm) H W D Weight (Kg)	10kVA	20kVA	30kVA		1070 60	1160 0 (externa	1250						
Weight POWER* System (Incl STSW and base modules) Model Dimension (mm) H W D Weight (Kg) ACOUSTIC NOISE @1.5m from front of unit	10kVA 690	20kVA 790	30kVA 880	970	1070 60 69	1160 0 (externa 0 173	1250 al) 188	1350	218	1540			
Weight POWER* System (Incl STSW and base modules) Model Dimension (mm) H W D Weight (Kg)	10kVA 690	20kVA 790	30kVA 880	970	1070 60 69	1160 0 (externa 0	1250 al)	1350	1440	1540			

^{*} All specifications are subject to change without prior notice



POWER⁺ 19"

POWER* 19" allows you house the excellent UPS module, controller and STSW in any 19" rack.

This solution allows you a lower cost solution for 10kVA and 20kVA in 19" rack.

The kit includes 10kVA **POWER**⁺ module, controller with STSW and a 19" shelf to house the above.

Flexible use - available in 3/3, 3/1 and 1/1

Dimensions:

Height: 4U for 10 kVA; 6U for 20kVA

Width: 19"

Depth: 600 mm (including plug-in connectors in rear side of

shelves)

POWER⁺ Controller



POWER⁺ system is supplied with an integral POWER⁺ Controller that enables full remote UPS management through web access. This includes display of active alarms and alarm log access, automatic server shutdown, email alerts, and management of SNMP trap for interface with NMS software. Together with the optional external cellular modem, POWER⁺ can also provide SMS alerts and enable remote cellular commands.

Control & Management =

POWER + can be managed and controlled via variety of communication options like TCP/IP, wireless cellular communication etc.

WING

WING is a GSM cellular communication device, installed on UPS and DC systems, which provides SMS alerts of predefined system events to end users or control centers.

G4 and G-Eye

Available for both manned and unmanned sites, the G4 and G-Eye Management and Monitoring Systems deliver user-friendly unit monitoring, control and management of physical UPS sites - including temperature and humidity, movement and doors, air conditioning units, servers, power devices, and more.



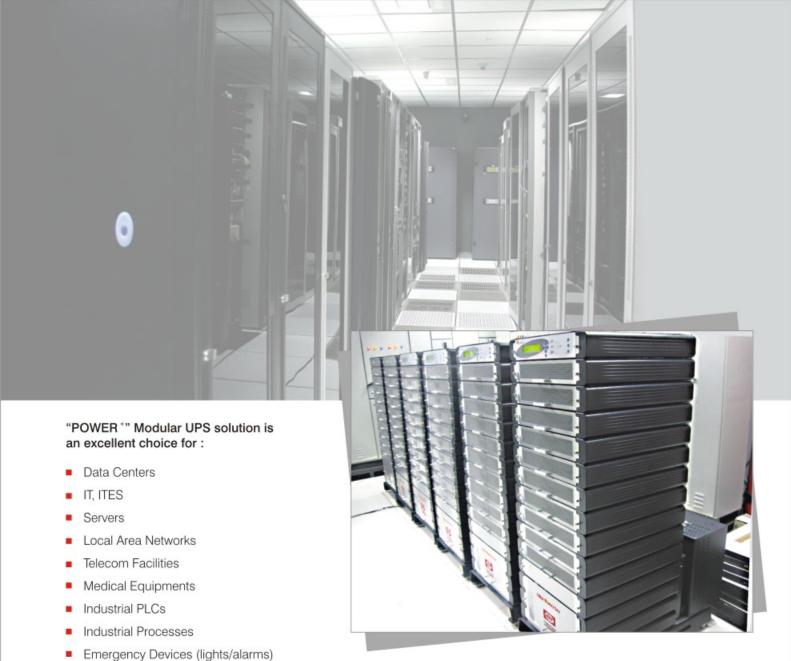
PSM

PSMP + is Windows-based shutdown software supported by WIN 2000/XP/2003, installed on a local PC and connected to POWER $^{+}$ in the LAN. Shutdown of all Unixbased and Netware computers is supported through the master computer.

GEMSi

Supporting both Gamatronic and a wide range of other power products, GEMSi (Gamatronic Element Management System) is a user-friendly application that provides real time remote monitoring and management of up to 1600 UPS control units at diverse and distributed sites.





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