Zutronic
By ENERGY SERVICE

UPS FOR IT SOLUTION

UPS SERIES PLATINUM

Platinum series UPS devices ensure maximum protection and power quality for any type of load, especially for mission critical applications, security systems and electro-medical equipment, industrial processes and telecommunications.
Platinum is an on-line double conversion UPS (class VFI SS 111 in accordance with IEC EN 62040-3) with a transformer isolated inverter.

EASY SOURCE

Platinum makes powering UPS devices by power generators and MV/LV transformers easier and more efficient, reducing loss in systems and coils and correcting the power factor and eliminating harmonics by the loads powered by the UPS itself.
In addition to this, the progressive start-up of the rectifier and the possibility of reducing the recharge current of the batteries, allow for the containment of the input current absorbed and therefore do not overload the source, especially when the source is a generator.

BATTERY CARE SYSTEM: MAXIMUM BATTERY CARE

Normally the batteries are kept charged by the rectifier; when mains power fails, the UPS uses this energy source to power its utilities. Therefore, proper battery care is critical to ensuring correct UPS operation in emergency conditions.Battery Care System consists of a series of features and capabilities that allow for battery management in order to obtain the best performance possible and extend their operating life.

- Dual level charging regime to optimize recharge currents and reduce charge times
- Temperature compensation and deep discharge protection to reduce overall battery ageing
- Charge blocking system to reduce electrolyte consumption and lengthen the life of VRLA batteries
- Battery tests to diagnose, in advance, any reduction in performance or problems with the batteries.

Platinum is also compatible with different battery technologies: vented open lead acid, VRLA AGM and NiCd.

FLEXIBILITY

Platinum is suited to all types of applications, from computers to the most demanding industrial environments.
Thanks to the broad range of accessories and options, complex architectures and configurations can be created to ensure maximum power to critical loads:
expansions (in redundancy or power) may be made in already-operating parallel systems, even without having to switch off any UPS that are already operating and thus, maintaining power to utilities.
UGS and PSJ devices also ensure redundancy in the downstream distribution of the parallel system, creating a “selective” system that provides power to other connected utilities even when there are failures on one utility

MAXIMUM RELIABILITY AND AVAILABILITY

Distributed or centralised parallel up to 8 units per redundant (N+1) or powerparallel. A parallel between models with different power levels is possible. Maximum levels of availability also in the event of an interruption to the parallel bus cable: the system is "FAULT TOLERANT". It is not affected by connection cable faults and continues powering the load without a continuity solution, signalling the anomaly with an alarm.

OPTIONS

- **UGS** - UPS Group Synchroniser Allows 2 or more non-parallel UPS devices to remain synchronised even during mains power failure. The UGS also enables a Riello UPS to be synchronised with another power source that is independent and of a different power rating.
- **PSJ** - Parallel Systems Joiner Connects two UPS groups in parallel, hot (without output discontinuity) through a power coupling switch. A UPS group (slave) is is permanently synchronised to the Master group both when the mains supply is present or not present (thanks to the UGS synchronising device) . If there is a failure on one of the UPS devices in parallel, it is cut-off. The PSJ will automatically connect the remaining UPS to the other group in parallel via an external bypass, in order to ensure the redundancy of the load.

EASE OF INSTALLATION

Platinum requires only a very small space for installation (only 0.64 sqm for a 200KVA system); in addition, front access allows servicing of all major components from the front panel, making side access unnecessary. Given the upwards ventilation, Platinum can be placed up against a wall, reducing the space to be left free, necessary in event the flow of hot air coming out the rear.

SPECIFIC SOLUTIONS

The UPS can be adapted to meet your requirements. Contact TEC to discuss the feasibility of specific solutions and options not listed in the catalogue.

ADVANCED COMMUNICATION

- Compatible with Teleguard for teleassistance.
- Advanced communication, multiplatform, for all operating systems and network environments: Supervision and shutdown PowerShield3 software for Windows operating systems 7, 2008, Vista, 2003, XP, Linux, Mac OS X, Sun Solaris, Linux, Novell and other Unix operating systems.
- UPS is supplied with a cable for direct PC connection (Plug and PLay)
- RS232 double serial port
- Slot for network adapter installation; ESD contact (Emergency Switching Device) for switching off the UPS by remote emergency button.
- Remote led mimic panel or graphic display.

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DATA SHEET

	MODELS	TM10[BAT]	TM15[BAT]	TM20[BAT]	TM30[BAT]	TM40[BAT]	TM60[BAT]	TM80[BAT]	TM100[BAT]
INPUT	NOMINAL VOLTAGE	380 - 400 - 415 Vac three-phase							
	VOLTAGE TOLERANCE	400 V + 20% /- 25%							
	FREQUENCY	45 - 65 Hz							
	SOFT START	0 - 100% in 120" (selectable)							
	PERMITTED FREQUENCY TOLERANCE	± 2% (selectable from ± 1% to ± 5% from front panel)							
	STANDARD EQUIPMENT PROVIDED	Back Feed protection; separable bypass line							
BYPASS	NOMINAL VOLTAGE	220 - 230 - 240 Vac single-phase + N							
	NOMINAL FREQUENCY	50 or 60 Hz (selectable)							
OUTPUT	NOMINAL POWER (KVA)	10	15	20	30	40	60	80	100
	ACTIVE POWER (KW)	9	13,5	18	27	36	54	72	90
	NUMBER OF PHASES	1							
	NOMINAL VOLTAGE	220 - 230 - 240 Vac single-phase + N (selectable)							
	STATIC STABILITY	± 1%							
	DYNAMIC STABILITY	± 5% in 10 ms							
	VOLTAGE DISTORTION	< 1% with linear load / < 3% with non-linear load							
	CREST FACTOR	3:1 Ipeack/Irms							
	FREQUENCY STABILITY ON BATTERY	0,05%							
	FREQUENCY	50 or 60 Hz (selectable)							
	OVERLOAD	110% for 60'; 125% for 10'; 150% for 1'							
BATTERIES	TYPE	VRLA AGM / GEL; NiCd; Supercaps; Li-ion; Flywheels							
	RESIDUAL RIPPLE VOLTAGE	< 1%							
	TEMPERATURE COMPENSATION	-0,5 Vx°C							
	TYPICAL CHARGE CURRENT	0,2 x C10							
INFO FOR INSTALLATION	WEIGHT WITHOUT BATTERIES (kg)	200	220	230	270	302	440	500	580
	DIMENSIONS (WxDxH) (mm)	555 x 740 x 1400					800 x 740 x 1400		800 x 800 x 1900
	REMOTE SIGNALS	dry contacts							
	REMOTE CONTROLS	ESD and bypass							
	COMMUNICATIONS	Double RS232 + dry contacts + 2 slots for communications interface							
	OPERATING TEMPERATURE	0 °C / +40 °C							
	RELATIVE HUMIDITY	<95% non-condensing							
	COLOUR	Dark grey RAL 7016							
	NOISE LEVEL AT 1 m (ECO Mode)	60 dBA			62 dBA				
	IP RATING	IP20							
	SMART ACTIVE EFFICIENCY	up to 98%							
	STANDARDS	Directives LV 2006/95/EC - 2004/108/EC; Safety IEC EN 62040-1; EMC IEC EN 62040-2; Performance IEC EN 62040-3							
	CLASSIFICATION IN ACCORDANCE WITH 62040-3	(Voltage Frequency Independent) VFI - SS - 111							
	MOVING THE UPS	transpallet							

[BAT] Also available with internal batteries

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DATA SHEET

MODELS		TT10[BAT]	TT15[BAT]	TT20[BAT]	TT30[BAT]	TT40[BAT]	TT60[BAT]	TT80[BAT]	TT100[BAT]
INPUT	NOMINAL VOLTAGE	380-400-415 Vac three-phase							
	VOLTAGE TOLERANCE	400 V + 20%/-25%							
	FREQUENCY	45 - 65 Hz							
	SOFT START	0 - 100% in 120" (selectable)							
	PERMITTED FREQUENCY TOLERANCE	± 2% (selectable from ± 1% to ± 5% from front panel)							
	STANDARD EQUIPMENT PROVIDED	Back Feed protection; separable bypass line							
BYPASS	NOMINAL VOLTAGE	380 - 400 - 415 Vac three-phase + N							
	NOMINAL FREQUENCY	50 or 60 Hz (selectable)							
OUTPUT	NOMINAL POWER (KVA)	10	15	20	30	40	60	80	100
	ACTIVE POWER (KW)	9	13,5	18	27	36	54	72	90
	NUMBER OF PHASES	3 + N							
	NOMINAL VOLTAGE	380 - 400 - 415 Vac three-phase + N (selectable)							
	STATIC STABILITY	± 1%							
	DYNAMIC STABILITY	± 5% in 10 ms							
	VOLTAGE DISTORTION	< 1% with linear load / < 3% with non-linear load							
	CREST FACTOR	3:1 Ipeack/Irms							
	FREQUENCY STABILITY ON BATTERY	0,05%							
	FREQUENCY	50 or 60 Hz (selectable)							
	OVERLOAD	110% for 60'; 125% for 10'; 150% for 1'							
BATTERIES	TYPE	VRLA AGM / GEL; NiCd; Supercaps; Li-ion; Flywheels							
	RESIDUAL RIPPLE VOLTAGE	< 1%							
	TEMPERATURE COMPENSATION	-0,5 V/°C							
	TYPICAL CHARGE CURRENT	0,2 x C10							
INFO FOR INSTALLATION	WEIGHT WITHOUT BATTERIES (kg)	228	241	256	315	335	460	540	600
	DIMENSIONS (WxDxH) (mm)	555 x 740 x 1400					800 x 740 x 1400		800 x 800 x 1900
	REMOTE SIGNALS	dry contacts							
	REMOTE CONTROLS	ESD and bypass							
	COMMUNICATIONS	Double RS232 + dry contacts + 2 slots for communications interface							
	OPERATING TEMPERATURE	0 °C / +40 °C							
	RELATIVE HUMIDITY	<95% non-condensing							
	COLOUR	Dark grey RAL 7016							
	NOISE LEVEL AT 1 m (ECO Mode)	60 dBA				62 dBA			65 dBA
	IP RATING	IP20							
	SMART ACTIVE EFFICIENCY	up to 98%							
	STANDARDS	Directives LV 2006/95/EC - 2004/108/EC; Safety IEC EN 62040-1; EMC IEC EN 62040-2; Performance IEC EN 62040-3							
	CLASSIFICATION IN ACCORDANCE WITH 62040-3	(Voltage Frequency Independent) VFI - SS - 111							
	MOVING THE UPS	transpallet							

[BAT] Also available with internal batteries

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DATA SHEET

	MODELS	TT120[BAT]	TT160[BAT]	TT200[BAT]
INPUT	NOMINAL VOLTAGE	380-400-415Vac three-phase		
	VOLTAGE TOLERANCE	400 V + 20%/-25%		
	FREQUENCY	45 - 65 Hz		
	SOFT START	0 - 100% in 120" (selectable)		
	PERMITTED FREQUENCY TOLERANCE	± 2% (selectable from ± 1% to ± 5% from front panel)		
	STANDARD EQUIPMENT PROVIDED	Back Feed protection; separable bypass line		
BYPASS	NOMINAL VOLTAGE	380 - 400 - 415 Vac three-phase + N		
	NOMINAL FREQUENCY	50 or 60 Hz (selectable)		
OUTPUT	NOMINAL POWER (KVA)	120	160	200
	ACTIVE POWER (KW)	108	144	180
	NUMBER OF PHASES	3 + N		
	NOMINAL VOLTAGE	380 - 400 - 415 Vac three-phase + N (selectable)		
	STATIC STABILITY	± 1%		
	DYNAMIC STABILITY	± 5% in 10 ms		
	VOLTAGE DISTORTION	< 1% with linear load / < 3% with non-linear load		
	CREST FACTOR	3:1 Ipeack/Irms		
	FREQUENCY STABILITY ON BATTERY	0,05%		
	FREQUENCY	50 or 60 Hz (selectable)		
	OVERLOAD	110% for 60'; 125% for 10'; 150% for 1'		
BATTERIES	TYPE	VRLA AGM / GEL; NiCd; Supercaps; Li-ion; Flywheels		
	RESIDUAL RIPPLE VOLTAGE	< 1%		
	TEMPERATURE COMPENSATION	-0,5 V/°C		
	TYPICAL CHARGE CURRENT	0,2 x C10		
INFO FOR INSTALLATION	WEIGHT WITHOUT BATTERIES (kg)	610	690	790
	DIMENSIONS (WxDxH) (mm)	800 x 800 x 1900		
	REMOTE SIGNALS	dry contacts		
	REMOTE CONTROLS	ESD and bypass		
	COMMUNICATIONS	Double RS232 + dry contacts + 2 slots for communications interface		
	OPERATING TEMPERATURE	0 °C / +40 °C		
	RELATIVE HUMIDITY	<95% non-condensing		
	COLOUR	Dark grey RAL 7016		
	NOISE LEVEL AT 1 m (ECO Mode)	68 dBA		
	IP RATING	IP20		
	SMART ACTIVE EFFICIENCY	up to 98%		
	STANDARDS	irectives LV 2006/95/EC - 2004/108/EC; Safety IEC EN 62040-1; EMC IEC EN 62040-2; Performance IEC EN 62040-3		
	CLASSIFICATION IN ACCORDANCE WITH 62040-3	(Voltage Frequency Independent) VFI - SS - 111		
	MOVING THE UPS	transpallet		

[BAT] Also available with internal batteries

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BUREAU VERITAS Certification