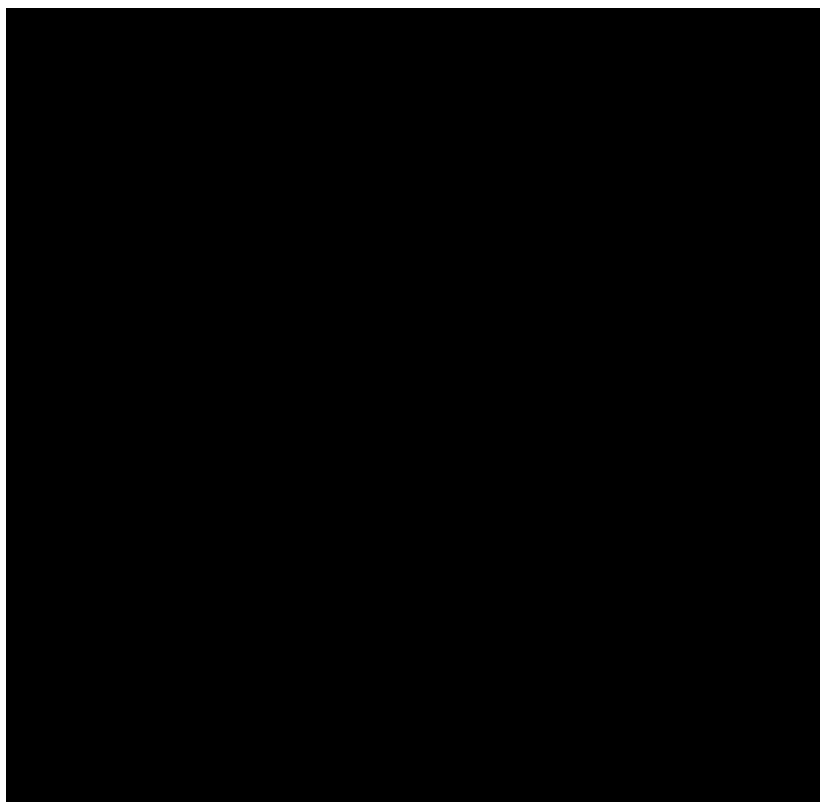




Uninterruptible Power Supply

ERA PLUS 1500

ERA PLUS 2000

ERA PLUS 2600

User's manual

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Safety Warnings



- ▶ Read this manual carefully and completely before installing and using the TECNOWARE ERA PLUS Uninterruptible Power Supply, which, from here after, will also be referred to as UPS.
- ▶ This manual should be kept close to the UPS and read before the UPS is installed and used.
- ▶ The UPS must be used only by properly trained personnel. To ensure correct and safe operations, it is necessary that operators and maintenance personnel observe the general safety Standards as well as the specific instructions included in this manual.
- ▶ Risk of electric shock: do not remove the cover. The UPS contains internal parts, which are at a high Voltage and are potentially dangerous, capable of causing injury or death by electric shock.
- ▶ There are no internal parts in the UPS, which are user serviceable. Any repair or maintenance work must be performed exclusively by qualified technical personnel authorized by TECNOWARE. TECNOWARE declines any responsibility if this warning is disregarded.
- ▶ Warning to the technical personnel authorized for Service: since internal components are connected to the batteries, they will remain powered, and therefore dangerous, even after the UPS has been disconnected from AC power mains. Before any repair or maintenance work, disconnect the batteries, by removing the positive cable (red colour) from the positive pole of the battery.
- ▶ It is compulsory to ground the UPS according to Safety Standards. The AC mains power supply socket used to power the UPS must have an earth connection.
- ▶ In the event of AC main power supply failure (when the UPS works in Battery mode), do not unplug the power supply cable to the UPS to ensure earth continuity to the connected loads.
- ▶ Since the AC mains power supply cable acts as a separation device, the AC mains power socket used to supply the UPS and/or the rear side of the UPS must be accessible to easily disconnect the cable in case of dangerous conditions.
- ▶ Risk of electric shock at the Output lines when the UPS is ON.
- ▶ Risk of electric shock at the Output lines while the unit is connected to the AC utility line.
- ▶ Do not obstruct ventilation slots or holes and do not rest any object on top of the UPS.
- ▶ Do not insert objects or pour liquids in the ventilation holes.
- ▶ Install the UPS indoors, in a protected, clean and moisture-free environment.
- ▶ Do not expose to the direct sun light.
- ▶ Do not keep liquids, flammable gases or corrosive substances near the UPS.



1 Introduction

ERA PLUS is a Line Interactive UPS with a Power Factor of 0.95. It is designed to protect your computer and other sensitive equipment from power surges, voltage fluctuations, and other power quality problems. It also provides battery backup in the event of a power outage.

Under normal conditions, ERA PLUS regulates the output voltage and frequency to match the requirements of your equipment. It also provides battery backup in the event of a power outage. The battery backup time depends on the load and the capacity of the battery.

ERA PLUS is a simple and easy-to-use device. It is designed to be installed and used by anyone. It also provides a clear display of the status of the device and the battery.



Read this manual carefully before using the ERA PLUS; it includes important safety warnings and useful advices for correct use and installation.

This manual is a guide that enables you to correctly install and use your ERA PLUS. This manual includes important SAFETY instructions for the operator, for the UPS correct installation, and gives useful advice on the product and battery maintenance. For any type of problem, please refer to this manual before calling the customer service.

ERA PLUS is a simple and easy-to-use device. It is designed to be installed and used by anyone. It also provides a clear display of the status of the device and the battery.

This manual includes the following models:

- ERA PLUS 1500 (1.5 KVA)
- ERA PLUS 2000 (2.0 KVA)
- ERA PLUS 2600 (2.6 KVA)

In this manual, ERA PLUS is referred to as UPS.

2 General Characteristics

ERA PLUS has all the advanced features (/) / +uarantee maximum reliability and safety:

- All functions are controlled ; & a microprocessor +2n+ -ull +uarantee o- / + / reliability.
- Output 40kVA+e re+ulat'on t /rou+ / A4R 7Automat") 40kVA+e Re+ulat'on9.
- Overload ,rote)tion ; ot / "n normal mode and "n ;atter& mode.
- <+ / ,er-orman)e ;atter&) /ar+er5 (/) / e+tends t / e ;atter& med"um l"-e ensur"n+ an o, t"mal re) /ar+e.
- Start u, e2en "- t / e ele)tr")al net (or3 "s not a2a"la; le.
- Automat") restart a-ter an automat") s / ut do (n due to a lo (;atter&)ond"t'on on)e t / e A* ut"l"t& , o (er returns.
- Adaptive automat")all& to 50 or 60 <@ "n, ut -re=uen)&.
- ' Leds to s / o (t / e -un)t'on"n+ modes5 alarm and -ault)ond"t'ons.
- A)oust") s"+nals o- 2ar"ous 3"nds "nd")at"n+ -un)t'on"n+ modes and alarm -ault)ond"t'on.
- *ommun")at'on ("t / t / e)om,uter t /rou+ / US! "nter-a)e.
- Prote)ts and -"lts t / e tele, / one l"ne.
- Fast s (a, , a; le ;atter&.
- <+ / e--")en)&
- \$a>"mum rel"a; "l"t&
- Smart des"n and eas& to use

3 Receipt and site selection

*are-ull& remo2e t / e UPS -rom "ts , a)3a+"n+5 and)arr& out a met")ulous "ns,e)t'on. 1e re)ommend 3ee,"n+ t / e or"+nal , a)3a+"n+ "n a se)ure , la)e5 "n)ase &ou need to send t / e UPS -or ma"ntenan)e , ur,oses. In)ase o-trans,ort dama+e5 not"-& t / e)arr"er and dealer "mmed"atel&.

1e re)ommend , a&"n+ attent'on to t / e ;elo (, o"nts "n order to) / oose a)orre)t , la)ement -or &our UPS:

- O / e UPS "s des"ned to o,erate "n a ,rote)ted en2"ronment 7e.+ o--")es9. 1e t / ere-ore re)ommend "nstall"n+ "t "n a , la)e ("t / 2er& l"ttle or no / um"d"t&5 dust or smo3e.
- In all)"r)umstan)es5 see t / e A0e) / n")al * / ara)ter"st")sB) / a, ter -or en2"ronmental s,e) "-)at'ons and) / e)3 t / at t / e sele)ted area meets t / ese s,e) "-)at'ons.
- Cur"n+ normal o,erat'on t / e UPS d"s) / ar+es a m"n"mal amount o- / eat. So "t "s ne)essar& to lea2e at least 20)m o- uno;stru)ted s,a)e all around t / e UPS "n order to 3ee, "t , ro,erl& 2ent"lated.
- Co not o;stru)t 2ent"lat'on / oles.
- Co not "nsert o;De)ts or , our l"=u"ds "n t / e 2ent"lat'on / oles.
- Co not rest an& o;De)t on to, o- t / e UPS.
- Co not 3ee, l"=u"ds5 -lamma; le +ases or)orros"2e su;stan)es near t / e un"t.
- Install t / e UPS on a , ro,erl& t"led -loor. A2o"d t / e "nstallat'on on a -loor t / at "s not t"led -lat.

4 EXTERNAL DESCRIPTION

4.1 Front Panel

The front panel informs the user about operating status, alarm conditions and measurements. Front panel symbols (icons) consist of the following parts:

1. 3 LEDs at the top (the unit) on normal modes, alarm and fault conditions.
2. ON/OFF button: enables the user to turn ON/OFF the UPS.

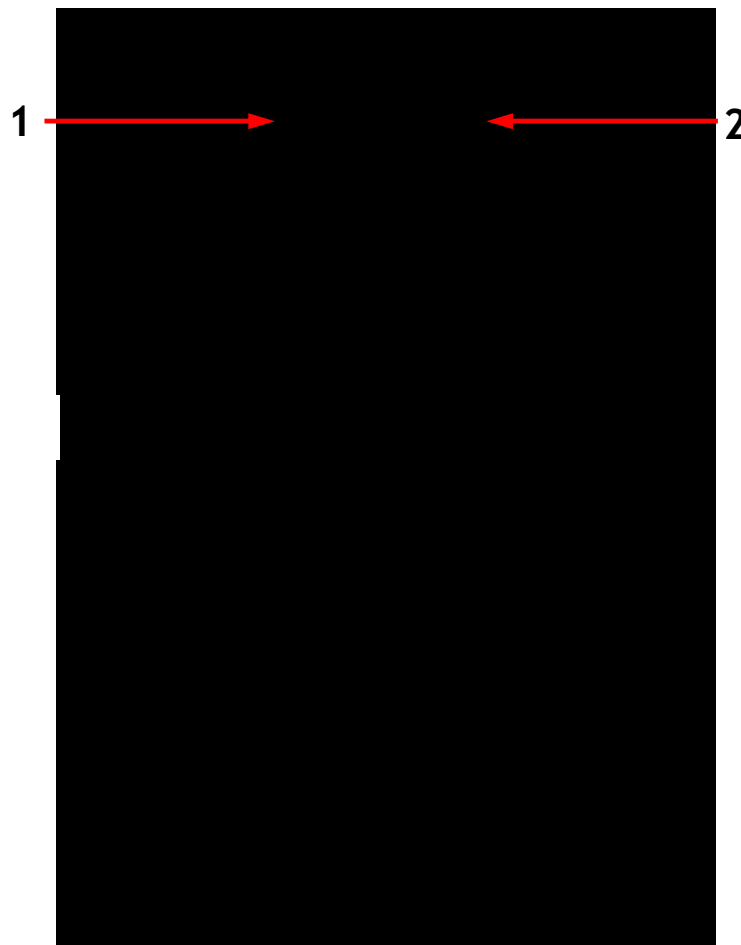


Figure 1 - Front panel

4.1.1 Leds and ON/OFF Button

Please refer to Figure 2.

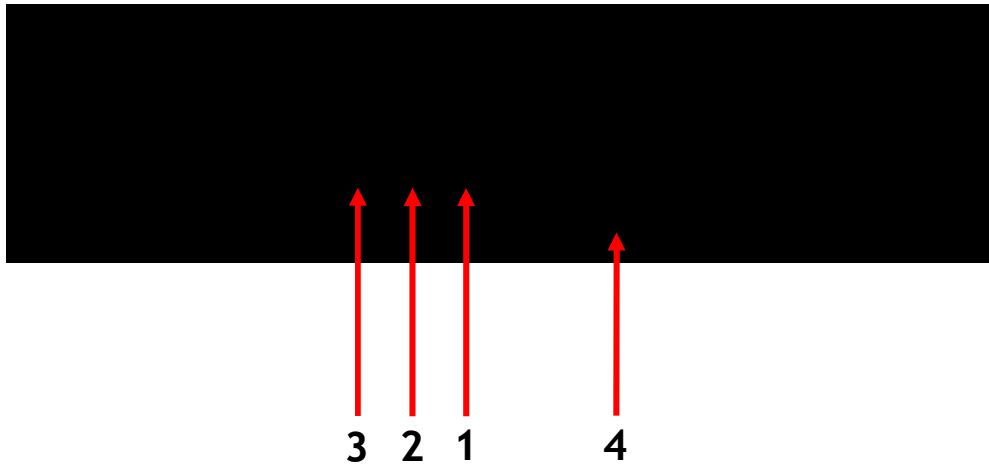


Figure 2 -LCD Display

1. **Line LED:** It is a green LED that is on when the UPS is in the Normal mode.
2. **Battery LED:** It is a red LED that is on when the UPS is in the Battery mode.
3. **Fault LED:** It is a red LED that is on when there is a fault in the UPS. The fault can be overload, overtemperature, or under-voltage.
4. **ON/OFF Button:** to turn ON and OFF the UPS.

4.2 Rear Side

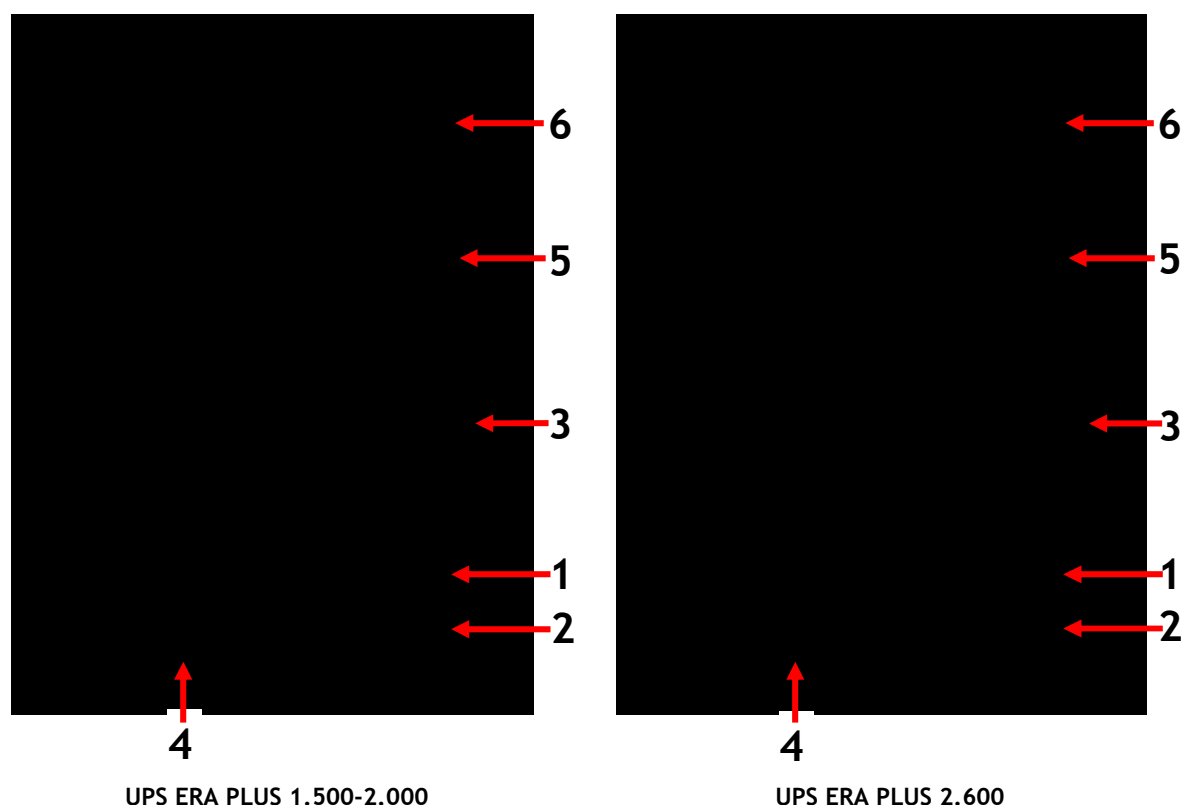


Figure 2 - Rear Side

1. Grounded AC Input power socket: $\Phi E^* * 14$ t&,eF to)onne)t t/e UPS to t/e A* ut"l"t& l"ne.
2. Input fuse: ele)tr")al s,e)"-")at"on: ma>)urrent 10 A5 2olta+e 250 4.
3. Grounded UPS Output receptacles: $\Phi E^* * 1'$ t&,e5 ;la)3)olour5 to su, ,l&)r"t")al loads.
4. Grounded (ONLY FILTERED) Output receptacles: $\Phi E^* * 1'$ t&,e5 red)olour5 to su, ,l& NON6)r"t")al loads.
5. Telephone protection (RJ11/RJ45 IN/OUT connectors): to ,rote)t and -"lter a ,/one l"ne5 an ACSL or a LAN 70N46' t&,e)onne)t"ons9.
6. Computer Interface (USB connector9: "t "s t/e)ommun")at"on US! ,ort.



The 2 ONLY FILTERED Output receptacles (red colour, #4), protect only the devices connected from overvoltages and disturbances of the AC line. Please connect ONLY the NON-critical devices to the ONLY FILTERED Output receptacles

In case of anomaly to the AC line (black-out), ONLY the UPS Output receptacles (black colour, #3) continue supplying the correct power to all connected equipment. Please connect all the non-critical devices to the UPS Output receptacles.

5 Electrical Installation and First Start Up

Read the following instructions carefully before proceeding with the installation and start-up of the UPS.

1. Switch off the main power supply to the UPS before proceeding with the installation.
2. Connect the UPS to the AC line outlet according to the Safety Standards. The AC line outlet must be grounded. The UPS must be connected to the AC line outlet through a dedicated circuit breaker. The circuit breaker must be rated for the UPS input power. The circuit breaker must be installed in the AC line before the UPS.
3. Press the ON/OFF button on the front panel. The UPS starts to operate. The LED indicator shows the status of the UPS. The LED indicator shows the status of the UPS. The LED indicator shows the status of the UPS.
4. Switch off the main power supply to the UPS before proceeding with the installation.
5. Connect the UPS to the AC line outlet according to the Safety Standards. The AC line outlet must be grounded. The UPS must be connected to the AC line outlet through a dedicated circuit breaker. The circuit breaker must be rated for the UPS input power. The circuit breaker must be installed in the AC line before the UPS.
6. Turn on the UPS. The UPS starts to operate. The LED indicator shows the status of the UPS. The LED indicator shows the status of the UPS. The LED indicator shows the status of the UPS.
7. Simulate a load on the UPS. The UPS starts to operate. The LED indicator shows the status of the UPS. The LED indicator shows the status of the UPS. The LED indicator shows the status of the UPS.
8. Make sure that all the connections are correct. The UPS starts to operate. The LED indicator shows the status of the UPS. The LED indicator shows the status of the UPS. The LED indicator shows the status of the UPS.
9. Restore the main power supply to the UPS. The UPS starts to operate. The LED indicator shows the status of the UPS. The LED indicator shows the status of the UPS. The LED indicator shows the status of the UPS.

Before using the ERA PLUS normal mode, make sure that the UPS is connected to the AC line outlet through a dedicated circuit breaker. The circuit breaker must be rated for the UPS input power. The circuit breaker must be installed in the AC line before the UPS.

It is compulsory to ground/earth the UPS according to the Safety Standards.

Risk of electric shock at the Output lines if the UPS is ON, even when the UPS is not connected to AC utility line.

Risk of electric shock at the Output lines while the unit is connected to the AC utility line.



Risk of electric shock: do not remove the cover. The UPS contains internal parts, which are at a high Voltage and are potentially dangerous, capable of causing injury or death by electric shock.

There are no internal parts in the UPS that are user serviceable. Any repair or maintenance work must be performed exclusively by qualified technical personnel authorized by TECNOWARE. TECNOWARE declines any responsibility if this warning is disregarded.

Disregard for these warnings may lead to a risk of electric shock to operators.

6 Functioning

6.1 Normal Mode

0/e UPS t&,"all& (or3s "n Normal mode: 8n,ut ma"ns ,o (er "s a2a"la;le and "ts am,l"tude "s ("t/"n s,e)-")at"ons.

0/e Normal mode "s "dent"-ed ;& t/e l"/t"n+ o- Line Led "n ;lue)olor.

Cur"n+ Normal mode5 t/e UPS re)/ar+es t/e ;atter"es and 3ee,s t/em "n an o,t"mal)/ar+"n+ 2olta+e.

6.2 Battery Mode

0/e UPS automat")all& runs "n Battery mode "- t/e A* 8n,ut L"ne 2olta+e am,l"tude +ets out o- se)ur"t& l"m"ts 7"n)ase o- a ;la)36out or o2er62olta+e lo (62olta+e9: "n t/"s)ase5 t/e UPS su,,l"es t/e re=u"red out,ut ,o (er ;& "ts "nternal ;atter& and ;& t/e 8n2erter ;lo)3.

0/e UPS automat")all& returns "n Normal mode a -e (se)onds a-ter t/e A* 8n,ut L"ne "s re)o2ered.

0/e !atter& mode "s "dent"-ed ;& t/e l"/t"n+ o- Battery Led "n &ello ()olor and ;& an a)oust") s"+nal e2er& 10 se)onds.

6.3 Low Battery and Automatic Restart

8n !atter& mode5 ERA PLUS "nd")ates t/e Low Battery)ond"t"on (/ene2er t/e ;atter& rea)/es a)/ar+e le2el allo ("n+)onne)ted de2")es to o,erate -or a ,ro>"matel& one more m"nute.

0/e UPS (arns o,erators o- Low Battery ;& l"/t"n+ o- Line and Battery Leds and ;& em"tt"n+ an a)oust") s"+nal e2er& se)ond.

8- A* 8n,ut does not)ome ;a)3 on ("t/"n -e(m"nutes5 t/e UPS shuts-down automatically t/us ,re2ent"n+ t/e ;atter"es -rom d"s)/ar+"n+ e>)ess"2el&F t/e UPS sto,s su,,l&"n+ Out,ut ,o (er5 dea)t"2ates)ontrol ,anel "nd")at"on and +oes to a (a"t"n+ state. On)e A* 8n,ut)omes ;a)3 on5 t/e UPS restarts automatically and a-ter some se)onds "t +oes ;a)3 to (or3 "n Normal mode.

A-ter a)om,lete d"s)/ar+e5 t/e UPS needs 4 /ours to re)/ar+e)om,lete& t/e ;atter"es. 0/e UPS re)/ar+es ;atter"es automat")all& "- "t (or3s "n Normal mode or "- "t "s o-- and)onne)ted to t/e A* 8n,ut L"ne.

6.4 Load Control

If the Output load is greater than nominal value the UPS (arms on- Overload condition ;& emits a continuous alarm).

If the UPS (arms on- an Overload less than 110G ;& alarm) alarm.

An Overload ;& (between 110G and 1'0G's a))e,ted -or a;out '0 seconds and after UPS s ("t)/es automat")all& o--.

If the UPS s ("t)/es "mmed"atel& o-- "- t/e Overload's /"+/er t/an t'an 1'0G.

Once the requested ,o (er "s ;a)3 ("t/n ran+e5 t/e UPS s ("t)/es automat")all& to t/e Normal mode.



Make sure that the UPS never indicates Overload condition.

Do not connect a load greater than rated value to the UPS (see POWER specifications in the chapter "Technical Characteristics"), as this may damage the unit. In this case the warranty is void.

6.5 Fault Condition

If the UPS (nd)ates t/e Fault condition ;& L*C d's,la&5 ;& l"/t"n+ o- t/e Fault led and ;& emits a continuous alarm).

Current Fault)ond"t"on5 t/e UPS doesn't su, ,l& Out,ut ,o (er and so all t/e su, ,l'ed de2")es are s ("t)/ed o--.

7 Communication Interfaces

If the UPS (s -a)tor&6e=u", ,ed ("t/ USB Communication Interface. On t/e UPS rear s"de t/ere "s t/e)onne)tor o- t/e Inter-a)e.

On a)t"2ate US!)ommun")at'on "t "s su--")ent to)onne)t t/e US!)a;le onl&.

The USB signal is isolated through photo-couplers from the dangerous voltages that are present inside the UPS.

*onne)t"n+ to t/e 1e; s"te www.tecnoware.com, "t "s ,oss";le to do (nload5 -ree o-)/ar+e5 t/e u,date UPS management So-t (are TecnoManager5)om,at";le ("t/ t/e most ,o,ular O,erat"2e S&stems.

8 Technical Characteristics

UPS ERA PLUS Model	1500	2000	2600
Power	1500 VA (1050 W)	2000 VA (1400 W)	2600 VA (1820 W)
Recommended -or:	1 Personal *om,uter ("t/ 6501 PSU 75501 real ,o(er9 H 1 L*C \$on"tor 71019 H 1 Pr"nter 742019 739	2 Personal *om,uters ("t/ 5501 PSU 74501 real ,o(er9 H 2 L*C \$on"tors 71019 H 2 Pr"nters 71#019 739	2 Personal *om,uters ("t/ 6501 PSU 75501 real ,o(er9 H 2 L*C \$on"tors 71019 H 2 Pr"nters 721019 739
0e)/nolo+&	L"ne 8ntera)t"2e ("t/ Sta;"l"@er		
Nom"nal 8n,ut 4olta+e	S"n+le6, /ase 2'0 4a)		
8n,ut 4olta+e Ran+e	H20G 625G		
8n,ut Out,ut Fre=uen)&	50 60 <@ 7automat") sele)t"on9		
8n,ut Fre=uen)& Ran+e	H 6 5G		
Nom"nal Out,ut 4olta+e	S"n+le6, /ase 2'0 4a)		
Out,ut 4olta+e Re+ulat"on 7Normal mode9	0/rou+/ A4R 7Automat") 4olta+e Re+ulat"on9		
Out,ut 4olta+e Re+ulat"on 7!atter& mode9	H 6 5G		
Out,ut 8n2erter 1a2e-orm	\$od"-ed S"ne (a2e		
A))e,ted O2erload	K 1'0G		
*ert-")at"ons	*E Standards: Lo (4olta+e 7Sa-et&9 C"re)t"2e 2014 '5 EU - E\$* 7Ele)tro6\$a+net") *om,at;"l"t&9 C"re)t"2e 2014 '0 EU		
E--")en)&	%2G		
!atter& 0&,e	Lead a)"d5 sealed5 -ree ma"ntenan)e		
Num;er o- ;atter"es	2		
Nom"nal !atter& 4olta+e	24 4d)		
!atter& S,e)-")at"ons	12 4d) - #52 A/ - 6)ells	12 4d) - % A/ - 6)ells	
!a)3u, 0"me 7t&,")al9	10 m"n		l m"n
!atter& */ar+e 0"me 7t&,")al9	4 /ours		
<ot S(a, !atter&	8n)luded		
Aud";le No"se 7at 1 meter9	K 45 d!A		
*ool"n+	Natural	Fan)ool"n+	
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0ele, /one and \$odem ,rote)t"on	RM11 RM45 ,lu+s "n)luded		
Out,ut so)3ets	4 UPS Out,ut so)3ets 78E* t&,e9 H 2 ONLE F8L0EREC Out,ut so)3ets 78E* t&,e9		
C"mens"on 71 > < > C9	1' > 1I52 > '2)m		
Net 1e"+/t	#51 N+	I56 N+	1054 N+
0e)/n")al data ma&)/an+e ("t/out ,r"or not")e			

739 *onne)t t/e ,r"nters to t/e ONLE F8L0EREC Out,ut so)3ets

9 Maintenance

9.1 UPS Cleaning



Before starting any cleaning operation, be sure that:

1. The AC Input Voltage for the UPS has been removed.
2. The UPS is OFF.

Use only a soft, dampened cloth to clean the unit.

Do not use any cleaning agents or dust. Do not use high-pressure water.

Do not restart the UPS. Be sure that the power is disconnected. Do not touch the UPS. Do not start the unit and do not touch the internal components.

9.2 Battery

Do not use the UPS as a power source for any other device. Do not use the UPS for any other purpose.

Do not use the UPS for any other purpose. Do not use the UPS for any other purpose.

Please see the manual for the UPS. Do not use the UPS for any other purpose.

Do not use the UPS for any other purpose. Do not use the UPS for any other purpose.

Do not use the UPS for any other purpose. Do not use the UPS for any other purpose.

9.3 Battery Replacement

Do not use the UPS for any other purpose. Do not use the UPS for any other purpose.

1. Turn the UPS off and disconnect the power.
2. Unplug the power cord from the UPS. Do not touch the power cord.
3. Disconnect the power cord from the UPS.
4. Do not touch the power cord.
5. Put the power cord back in the UPS.
6. Reassemble the UPS.

Battery replacement must be performed exclusively by qualified technical personnel authorized by TECNOWARE. TECNOWARE declines any responsibility if this warning is disregarded.

When replacing batteries, replace with the same type and number.

CAUTION: A battery can present a risk of electrical shock and high short circuit current. The following precautions should be observed when working on batteries:



a) Remove watches, rings or other metal objects;

b) Use tools with insulated handles;



c) Wear rubber gloves and boots;

d) Do not lay tools or metal parts on top of batteries;



e) Disconnect the charging source prior to connecting or disconnecting battery terminals;

f) Determine if battery is inadvertently grounded. If inadvertently grounded, remove source from ground.

CAUTION: Do not dispose of batteries in a fire. The batteries may explode.

CAUTION: Do not open or mutilate batteries. Released electrolyte is harmful to the skin and eyes. It may be toxic.

9.4 Operator Safety

1 /ene2er t/e UPS "s not res,ond"n+ an&more to or"+"nal)/ara)ter"st")s t/e UPS must ;e made non6o,erat"2e and e2er& usa+e not aut/or"sed must ;e a2o"ded. A-ter "t ("ll ;e ne)essar& to re-er to =ual"-ed te)/n")al ,ersonnel. Or"+"nal sa-et&)/ara)ter"st")s m"+"t not ;e "-5 -or e>am,le5 t/e UPS /as 2"s";le dama+e or "rre+ular o,erat"on.

10 Troubleshooting

Alarms and problems you may encounter during operation of the UPS are given in the table below. A, B, and C are the solutions corresponding to each anomaly described in the table.

8- For anomalies excluded or the suspected actions do not solve our problem, consult the Dealer/Technical Service. Please refer to the manual for the Dealer/Technical Service:

- ▶ Model and serial number of the UPS (1) /) and found on the nameplate on the bottom side of the UPS.
- ▶ Description of the anomaly.

Risk of electric shock: do not remove the cover. The UPS contains internal parts that are at a high Voltage and are potentially dangerous, capable of causing injury or death by electric shock.

There are no internal parts in the UPS that are user serviceable. Any repair or maintenance work must be performed exclusively by qualified technical personnel authorized by TECNOWARE.

TECNOWARE declines any responsibility if this warning is disregarded.

Warning to the technical personnel authorized for service: since internal components are connected to the batteries, they will remain powered, and therefore dangerous, even after the UPS has been disconnected from AC power mains. Before any repair or maintenance work, disconnect the batteries, by removing the positive cable (red colour) from the positive pole of the battery.

ANOMALY	POSSIBLE CAUSE	ACTION TO SOLVE
The UPS does not turn on	ON OFF button	Press the ON OFF button and the 3 times, used.



Conformity to the European Directives

TECNOWARE S.r.l. confirms that ERA PLUS models comply with the requirements set out in "the Low Voltage Safety Directive" (2006/95/EC) and following amendments, the EMC Directive (2004/108/EC) and following amendments.

WARNING - This is a category C) UPS product. In a residential environment, this product may cause radio interference, in which case the user may be required to take additional measures.

Product Disposal

UPS ERA PLUS cannot be disposed as an ordinary waste. It must be treated as a separate waste. Any violation is punishable with financial sanctions as per in force regulations.

An incorrect waste disposal or an improper use of the same or of any parts can be damaging for the environment and for human health.

A correct waste disposal of products having the distinct symbol marked by a cross helps to avoid negative consequences to the environment and to human health.



Lead Batteries

ERA PLUS models contain lead acid, sealed, maintenance free batteries.

The batteries cannot be disposed as an ordinary waste.



TECNOWARE s.r.l.
www.tecnaware.com