

Power Station II

BATTERY PACK

User Guide

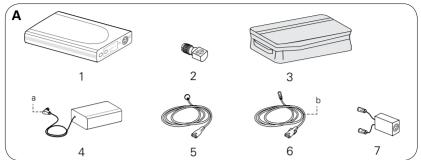
English

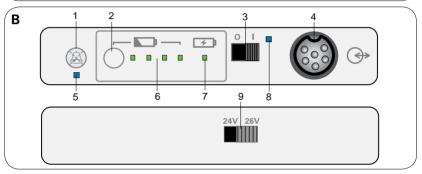


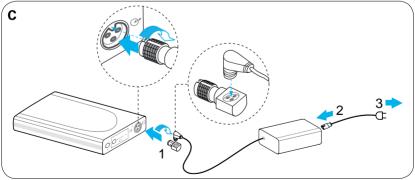
Respiratory Care Solutions Making quality of care easy

Power Station II

BATTERY PACK / AKKUPACK / BATTERIE / ALIMENTATORE A BATTERIA / BATERIA / BATERIA / BATERIA / BATTERIPACK / BATTERIPAKKE / BATTERIPAKKE / AKKU / MINATAPIA / 电池包 / 電池包



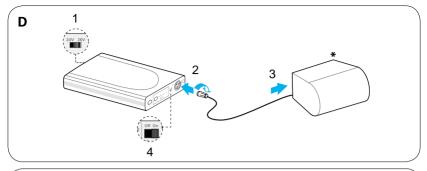


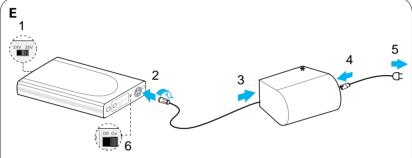


^a DC plug / Gleichstromstecker / Fiche CC / Spinotto DC / Enchufe de CC / Ficha CC / DC-stekker / DC-kontakt / Jævnstrømsstik / Likestrømsstøpsel / Tasavirtaliitin / Βύσμα DC / **直流电电源插头** / 直流電電源插頭

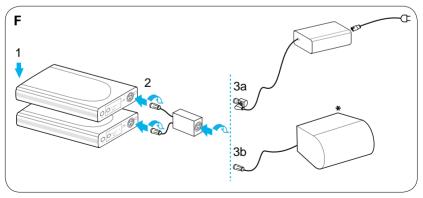
^b Example cable illustration only / Abbildung eines Beispielkabels / Exemple de càble / Illustrazione del cavo a solo titolo di esempio / Ilustración del cable proporcionada a modo de ejemplo únicamente / Ilustração de cabo apenas para exemplo / Uitsluitend voorbeeldillustratie van kabel / Kabeln på bilden är endast ett exemple / Det viste kabel er kun til illustrationsbrug / Den avbildede kabelen er kun ment som eksempel / Kuvassa vain esimerkki eri liitäntiatavoista / Anreixóvang kabelo na goácíyuratoc µóvo / 电源线样品只是银船/ 電源线只是核品圖解

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*Example device illustration only / Abbildung eines Beispielgerätes / Exemple d'appareil / Illustrazione dell'apparecchio a solo titolo di esempio / Ilustrazione del dispositivo proporcionada a modo de ejemplo únicamente / Ilustrazio de dispositivo apenas para exemplo / Uitsluitend voorbeeldillustratie van apparaat / Utrustningen på bilden är endast ett exempel / Det viste apparat er kun til illustrazionsbrug / Den avbildede enheten er kun ment som eksempel / Kuvassa vain esimerkki laitteesta / Απεικόνιση συσκευής παροδείγματος μόνο / **χ̄≣tFaJR_Bfif / EJR_EtKaBefif**

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Power Station II

DC output voltage & **DC** cables

		24V	26V	DC Cable Part Number
	VPAP™ III ST-A	\checkmark		24959
	VPAP [™] III ST-A with QuickNav	\checkmark		24959
	VPAP™ Auto 25	\checkmark		24960
	VPAP [™] S, VPAP [™] ST	\checkmark		24960
	VPAP™ IV, VPAP™ IV ST	\checkmark		24960
	S8™ Auto 25	\checkmark		24960
	S9 [™] Series	\checkmark		24961
	Stellar™	✓		24959 (24981 for Stellar™ Mobility bag)
	VS III™		\checkmark	24963
	Elisée [™] 150		\checkmark	24962
English Deutsch	 Not all devices are available in all regions. For information on battery run times refer to the Battery/Compatibility List on www.resmed.com. Hinweise: Einige Geräte sind nicht in allen Ländern erhältlich. Informationen zu den Akkulaufzeiten finden Sie in der Kompatibilitätsliste Akku/Gerät unter www.resmed.com. 			
Français	 Remarques : Certains de ces appareils ne sont pas disponibles dans tous les pays. Pour plus d'informations sur l'autonomie des batteries, veuillez consulter la liste de compatibilité entre les appareils et les batteries disponible sur www.resmed.com. 			
Italiano	Note: Alcuni apparecchi non sono disponibili in tutti i Paesi. Per informazioni sull'autonomia delle batterie, vedere la Tabella di compatibilità tra batterie e apparecchi presso www.resmed.com.			
Español	Notas: • No pueden obtenerse todos los dispositivos en todas las regiones. • Para obtener información sobre la duración de las baterías, consulte la Lista de compatibilidad de baterías/dispositivos en www.resmed.com.			
Português	 Notas: Nem todos os dispositivos estão disponíveis em todas as regiões. Para obter informações sobre a autonomia das baterias, consulte a lista de compatibilidade entre baterias/dispositivos em www.resmed.com. 			
Português Nederlands	 NB Niet alle apparaten zijn in alle regio's verkrijgbaar. Raadpleeg voor informatie over bedrijfstijden van accu's de Compatibiliteitslijst accu/apparaat op www.resmed.com. 			

Svenska	 Obs! Vissa utrustningar finns inte i alla delar av världen. För information om batteriernas körtider hänvisas till Produktkompatibilitetslista för batterier/ utrustningar på www.resmed.com.
Dansk	 Bemærkninger: Det er ikke alle apparater, der kan fås i alle lande. Der er oplysninger om batteriers driftstid under Liste over kompatible batterier og apparater på webstedet www.resmed.com.
Norsk	Merknader: • Noen apparater er ikke tilgjengelig i alle land. • Se listen over batteri/apparatkompatibilitet på www.resmed.com for informasjon om batterilevetid.
Suomi	 Huomautukset: Kaikkia laitteita ei ole saatavissa kaikissa maissa. Tietoja akkujen käyttöajoista saat Laitteiden ja akkujen vastaavuus -taulukosta osoitteesta www.resmed.com.
Ελληνικά	 Σημειώσεις: Δεν είναι όλες οι συσκευές διαθέσιμες σε όλες τις γεωγραφικές περιφέρειες. Για πληροφορίες σχετικά με τους χρόνους λειτουργίας των μπαταριών, ανατρέξτε στο Κατάλογο συμβατότητας για μπαταρίες/συσκευές στη διεύθυνση www.resmed.com.
简体中文	 备注: 不是所有装置都在各个地区有销售。 欲了解有关电池运行时间的信息,请浏览网站www.resmed.com,查看电池/装置兼容清单。
繁體中文	 備註: 不是所有裝置都在各個地區有銷售。 請瀏覽網站www.resmed.com 查看電池/裝置相容清單。

English

Intended use

The ResMed Power Station II (RPS II) is an external lithium-ion battery that provides power when mains power is unavailable.

Please read the entire guide before using the RPS II. Refer to the device user guides for intended patients, uses and contraindications associated with CPAP, bilevel and ventilation therapy.

RPS II at a glance

Refer to illustration A.

The RPS II system comprises the following components:

- 1. Battery
- 2. Power supply unit adapter
- 3. Carry bag

Available separately:

- 4. 90W AC power supply unit
- 5. AC power cord
- 6. DC output cable

Optional accessory:

7. Battery coupler (packed with Velcro™ strap)

Compatible devices and accessories

For a full list of compatible devices for RPS II, see the Battery/Device Compatibility List on www.resmed.com on the **Products** page under **Service & Support**. For a full list of accessories, see the Ventilation Accessories on www.resmed.com on the **Products** page under **Ventilation Devices**. For a list of output voltages and DC cables for your device, see the attached information leaflet, your device user guide, or the Battery/ Device Compatibility List on www.resmed.com. If you do not have internet access, please contact your ResMed representative.

For more information on setting up your device, see your device user guide.

Control panel

Refer to illustration B.

The control panel of your battery includes the following:

- 1. Audible alert mute button
- 2. Charge level check button
- 3. DC on/off switch
- 4. DC input/output port
- 5. Audible alert mute indicator

- 6. Battery level indicators
- 7. Charging indicator
- 8. DC switch/discharging indicator
- Voltage output selector switch (rear panel)

Setting up

- Ensure the RPS II and the device are turned off before setting up.
- When the RPS II is plugged to the mains power supply, ensure all cables are properly connected.

Charging the battery

Refer to illustration C.

- 1. Attach the power supply unit adapter to the DC plug and connect into the battery DC input/output port.
- 2. Connect the AC power cord to the power supply unit.
- 3. Plug the other end of the AC power cord into the mains power outlet.

Notes:

- Charging takes less than 4 hours from 0% battery level to greater than 95%.
- To discontinue charging, unplug the AC power cord from the mains power outlet.

Providing power to the device

Refer to illustration D.

- 1. Select the correct output voltage for your device using the voltage output selector from the RPS II rear panel.
- 2. Connect the appropriate DC output cable into the battery.
- 3. Connect the other end of the DC output cable into the device.
- 4. Set the DC on/off switch to on.

Providing backup power to the device (for systems with both AC and DC inputs)

In this configuration, the Elisee draws power from the RPS II first until it is fully discharged, and will not recharge. As a result, once all power has been discharged from the battery, it will not act as an AC backup.

Refer to illustration E.

- 1. Select the correct output voltage for your device using the voltage output selector from the RPS II rear panel.
- 2. Connect the appropriate DC output cable into the battery.
- 3. Connect the other end of the DC output cable into the device.
- 4. Connect the AC power cord to the rear of the device.
- 5. Plug the other end of the AC power cord into the mains power outlet.
- 6. Set the DC on/off switch to on.

Note: When powering the device regularly check the battery charge level.

Using two batteries

Refer to illustration F.

1. Place one battery on top of another.

If required, use the Velcro strap to hold the batteries securely.

- 2. Plug the battery coupler cables into each of the battery DC input/output ports. The battery coupler cables are marked with '1' (primary) and '2' (reserve) labels.
- 3. a. When charging two batteries, attach the power supply unit adapter to the DC plug and connect the adapter to the the battery coupler.
 - b. When powering a device, connect the DC output cable of the device to the end of the battery coupler. The primary battery supplies power to the device and the reserve battery takes over when the primary battery is disconnected or discharged.

Indicators

Refer to illustration B.

The RPS II provides LEDs to indicate its current operating state.

LED indicator		Status	
Battery of	harge level ¹ (B-6)		
¥	One amber flashing (audible alert beeps continuously)	Less than 5%	
¥	One green flashing (audible alert beeps for 10 sec)	Less than 10%	
	One green continuous	10% to 40% (approximate)	
	Two green continuous	40% to 65% (approximate)	
	Three green continuous	65% to 90% (approximate)	
	Four green continuous	Greater than 90% (approximate)	
Charging (B-7)			
¥	Flashing green	Charging	
	Constant green	Fully charged	
DC on/of	ff <i>(B-8)</i>		
₩	Flashing blue	RPS II turned on but not discharging	
	Constant blue	RPS II turned on and discharging	
Audible alert mute (B-5)			
₩	Flashing blue	Not discharging and mute is active	
	Constant blue	Discharging and mute is active	

¹ When setting the DC on/off switch, the charge level indicator may fluctuate between different levels.

To check the battery charge level, press the charge level check button (*B-2*) on the control panel. The number of green LEDs indicates the approximate charge level.

To mute the alert, press the audible alert mute button (B-1). To permanently mute, press and hold the audible alert mute button (B-1) for 5 seconds. To deactivate, press the audible alert mute button (B-1) when the mute is still active.

Using humidifiers

When a device integrated with the HumidAire 2i[™] or H4i[™] humidifier is not connected to the mains power supply, the humidifier will only operate in passive unheated mode despite the warm-up message appearing on the device. When the device is connected to the mains power supply, it will return to active heated mode.

S9[™] and H5i[™] devices operate normally in active heated mode when connected to the battery or to the mains power supply.

Cleaning and maintenance

Do not immerse the RPS II in water, and do not use liquids to clean any part of the product.

- 1. Disconnect the battery from the power supply unit and the device. Remove all cables.
- 2. Wipe the exterior of the battery with a clean cloth.

Storing

Batteries must be charged to 100% indicated by four green LEDs and switched off before storing. You must recharge the batteries to 100% again after three months of storage. When not in use, all Lithium-Ion batteries self-discharge over time. If not periodically recharged (ie, every three months), the RPS II will eventually self-discharge to the point that it can no longer be recharged. If this occurs the RPS II is no longer usable and is unrecoverable.

Store the RPS II in a cool, dry place.

Note: A fully charged battery when left switched on, self-discharges to less than 50% of full capacity within two weeks of storage. Once switched off, the battery self-discharges to less than 50% of full capacity within one month of storage.

Servicing

The RPS II is intended to provide safe and reliable operation when used and maintained in accordance with the instructions provided by ResMed. There is no servicing necessary during the lifetime of the battery.

The service life of the RPS II exceeds 500 recharge cycles. After this cycle, the battery will last about 60% of the time from its original condition. A full charge in an older battery will not last as long as in a new battery. ResMed recommends that the RPS II be tested for battery duration regularly. As with all electrical equipment, if any irregularity becomes apparent, you should exercise caution and contact an authorised ResMed service representative.

Traveling

Consult with your carrier if you intend to take the battery on board with your device.

Troubleshooting

If there is a problem, try the following suggestions. If the problem cannot be solved, contact your equipment supplier or ResMed. Do not attempt to open the battery.

Problem/Possible cause	Solution	
Device is not running		
Power connections are disrupted.	Check all cables and connect them as described in Setting up.	
RPS II is discharged.	Connect the device to the mains power supply and recharge the RPS II.	
RPS II is off.	Set the DC on/off switch to on.	
Incorrect output voltage selected.	Select the correct output voltage for your device using the output voltage selector switch from the RPS II rear panel. Note: For a list of output voltages and DC cables for your device, see the attached information leaflet,	
	your device, see the attached information leaner, your device user guide, or the Battery/Device Compatibility List on www.resmed.com.	

RPS II sounds an audible alert continuously and an amber LED is flashing

The battery charge level is less	Press the audible alert mute button to mute the
than 5%.	alert. Recharge the battery as soon as possible.

RPS II sounds an audible alert for 10 seconds and a green LED is flashing

The battery charge level is below	Recharge the battery as soon as possible.
10%.	

Charging stops before completion

When charging the battery inside	Remove the battery from the RPS II carry bag or
the RPS II carry bag, the ambient	charge the battery where the ambient temperature is
temperature is warmer than 35°C.	cooler than 35°C.

Battery turns off and stops powering device

When the battery is in the	Remove the battery from the RPS II carry bag or
RPS II carry bag, the ambient	power the device where the ambient temperature is
temperature is warmer than 35°C.	cooler than 35°C.

Battery charge level indicator is inaccurate

Ambient temperature is at	Recharge the battery as soon as possible to ensure
extreme condition (eg, –5°C,	adequate capacity.
+40°C).	

Technical specifications

CorpectiveUN classificationUN3481 (lithium-ion batteries packed with equipment)Power supplyInput range 100–240V, 50–60Hz, 1.0-1.5A Nominal for aircraft use 110V, 400HzBattery output voltage(24V / 26V) ± 0.5V, 90W continuousPower supply unit output current (rated)3.75 ABattery output current (rated)3.75 A / 3.46 AStandby current< 100 µAProtectionOvercharge, overdischarge, excess current, short circuit, high temperatureDimensions (L x W x H)230 mm x 126 mm x 26 mmBattery weight0.9 kgSystem weight2.3 kgMinimum life cycle≥ 500 cycles at 23°C to 60% capacityOperating conditions Charging5°C to 40°C; 5–85% maximum humidityTransport/storage conditions-20°C to +45°C; 5–85% maximum humidityOperating/storage air pressure600 hPa to 1100 hPaRecharge time< 4 hrs at full levelElectromagnetic compatibilityProduct complies with all applicable electromagnetic compatibility requirements (EMC) according to 1EC60601- 1-2, for residential, commercial, and light industry environments. Information regarding the electromagnetic certisons and immunity of these ResMed devices can be found on www.resmed.com, on the Products page under Service and Support. Click on the PDF file for your language.IEC 60601-1 classificationClass II (double insulation) and/or Internally Powered Equipment, IP21 (IP20 while charging), Continuous Operation (from mains), Limited Operation (from battery), Equipment not suitable for use in the presence of a flammable anaesthetic mixture with air or with oxygen or nitrous oxide. <td< th=""><th>Battery technology Capacity</th><th>Lithium ion < 100 Wh (97 Wh)</th></td<>	Battery technology Capacity	Lithium ion < 100 Wh (97 Wh)
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Charging Discharging5°C to 40°C; 5–85% maximum humidity -5°C to 40°C; 5–85% maximum humidityTransport/storage conditions Operating/storage air pressure-20°C to +45°C; 5–85% maximum humidityRecharge time-20°C to +45°C; 5–85% maximum humidityElectromagnetic compatibilityProduct complies with all applicable electromagnetic compatibility requirements (EMC) according to IEC60601- 1-2, for residential, commercial, and light industry environments. Information regarding the electromagnetic emissions and immunity of these ResMed devices can be found on www.resmed.com, on the Products page under Service and Support. Click on the PDF file for your language.IEC 60601-1 classificationClass II (double insulation) and/or Internally Powered Equipment, IP21 (IP20 while charging), Continuous Operation (from mains), Limited Operation (from battery), Equipment not suitable for use in the presence of a flammable anaesthetic mixture with air or with oxygen or nitrous oxide.Battery run time> 8 hrs at average device settings1 For more information, see the Battery/Device Compatibility List on www.resmed.com.	Minimum life cycle	\ge 500 cycles at 23°C to 60% capacity
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		For more information, see the Battery/Device Compatibility List on www.resmed.com.

 1 Using 15 cm H_2O (IPAP), 5 cm H_2O (EPAP), and 15 BPM (Respiratory Rate). Not applicable to devices when using heated humidification and heated tubing.

Note: The manufacturer reserves the right to change these specifications without notice.

Symbols

The following symbols may appear on the device or packaging: Attention, consult accompanying documents; Read instructions before use; IP21Drip proof; IP20 No protection; Class II equipment; Kers European RoHS; LOT Batch Code; SN Serial number; REF Catalogue number; Maximum humidity; Temperature limitation (storage and transport); Charging; Battery charge level; Audible alert mute; DC input/output; OI DC on/off; Do not use if package is damaged; Manufacturer; ECREP European Authorised Representative; Environmental Information.

Disposal of the battery and the power supply unit should be carried out in accordance with applicable national laws and regulations. WEEE 2002/96/EC is a European Directive that requires the proper disposal of electrical and electronic equipment. The battery and power supply unit should be disposed of separately, not as unsorted municipal waste. To dispose of your battery and power supply unit, you should use appropriate collection, reuse and recycling systems available in your region. The use of these collection, reuse and recycling systems is designed to reduce pressure on natural resources and prevent hazardous substances from damaging the environment. European Directive 2006/66/EC requires the proper disposal of spent batteries and accumulators. The battery may only be returned to collection points fully discharged. If charged or partially discharged, care should be taken to prevent short circuiting. Batteries containing more than 0.0005% of mercury by mass, more than 0.002% of cadmium by mass or more than 0.004% of lead by mass are marked below the crossed-bin symbol with the chemical symbols (Hg, Cd, Pb) of the metals for which the limit is exceeded.

If you need information on these disposal systems, please contact your local waste administration. The crossed-bin symbol invites you to use these disposal systems. If you require information on collection and disposal of your ResMed device please contact your ResMed office, local distributor or go to www.resmed.com/environment.

General warnings and cautions

- Lithium ion batteries have built-in safety protection circuits, but can still be dangerous if they are not used correctly. Damaged batteries can become inoperative or catch fire.
- Due to risk of fire or electric shock:
 - do not place the RPS II near open fire or heaters.
 - do not expose the RPS II to direct sunlight or heat (for example behind a car window).
 - do not expose the RPS II to water, rain or high moisture levels.
 - do not short-circuit the RPS II.
 - do not use a damaged RPS II.
 - do not open the RPS II or the AC charger.
- Make sure to revert to AC power when the remaining capacity of RPS II and/or device internal battery is low.

- Make sure to periodically recharge the battery due to effects of selfdischarging.
- As the battery ages, the available capacity decreases. When the remaining battery capacity is getting low, do not rely on the RPS II as the primary supply.
- Ensure the internal battery of any connected device is kept charged up to provide backup power in the event of loss of power from RPS II.
- Only use a supplied ResMed 90W AC power supply unit for charging the RPS II.
- Explosion hazard-do not use in the vicinity of flammable anaesthetics.
- The RPS II system is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the RPS II system by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the RPS II system.
- Care should be taken to keep the power supply unit adapter dry. The RPS II system, while connected to a device and discharging, is rated to IP21 (Drip proof) according to IEC60529. When charging, the RPS II system is rated to IP20 (No protection) due to the power supply unit adapter which is rated to IP20. The AC power supply and the RPS II battery are both rated to IP21.

\triangle cautions

- Avoid hard, physical impact on the battery.
- Before using for the first time, ensure that the RPS II and its components are in good condition and that their operational safety is guaranteed. If there are any defects, the system should not be used.
- The RPS II is to be used only in accordance with the intended use stated in this guide. Damage to equipment or injury can result from modifications to the equipment or operation.
- Always fully charge the RPS II before use, or before relying as a backup power.
- Monitor the charge level of the RPS II. When the charge level is low, ensure that continuity of power can be maintained.
- When in use, always plug the cable from the RPS II into the device. Keep the RPS II power switch turned on to ensure it can provide backup power.
- When transporting, turn off the RPS II, unplug all cables, and pack in the carry bag.
- Medical electrical equipment requires special precautions regarding EMC and needs to be installed and operated according to the information provided in this user guide. Portable and mobile communications equipment can affect medical electrical equipment. If EMC interference is observed, for example static on radios, move the RPS II away from other equipment.

Note: The above are general warnings and cautions. Specific warnings, cautions, and notes appear with the relevant instructions in the guide.

Limited warranty

ResMed Ltd (hereafter 'ResMed') warrants that your ResMed product shall be free from defects in material and workmanship from the date of purchase for the period specified below.

Product	Warranty period
 Mask systems (including mask frame, cushion, headgear and tubing)—excluding single-use devices Accessories—excluding single-use devices Flex-type finger pulse sensors Humidifier water tubs 	90 days
Batteries for use in ResMed internal and external battery systems	6 months
 Clip-type finger pulse sensors CPAP and bilevel device data modules Oximeters and CPAP and bilevel device oximeter adapters Humidifiers and humidifier cleanable water tubs Titration control devices 	1 year
 CPAP, bilevel and ventilation devices (including external power supply units) Battery accessories Portable diagnostic/screening devices 	2 years

This warranty is only available to the initial consumer. It is not transferable.

If the product fails under conditions of normal use, ResMed will repair or replace, at its option, the defective product or any of its components.

This limited warranty does not cover: a) any damage caused as a result of improper use, abuse, modification or alteration of the product; b) repairs carried out by any service organisation that has not been expressly authorised by ResMed to perform such repairs; c) any damage or contamination due to cigarette, pipe, cigar or other smoke; and d) any damage caused by water being spilled on or into an electronic device.

Warranty is void on product sold, or resold, outside the region of original purchase.

Warranty claims on defective product must be made by the initial consumer at the point of purchase.

This warranty replaces all other expressed or implied warranties, including any implied warranty of merchantability or fitness for a particular purpose. Some regions or states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

ResMed shall not be responsible for any incidental or consequential damages claimed to have resulted from the sale, installation or use of any ResMed product. Some regions or states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which vary from region to region. For further information on your warranty rights, contact your local ResMed dealer or ResMed office.

248527/2 2012-07 Power Station II USER **ROW MULTI**

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