



Intenso W140A3C GaN Power Adapter Set User Manual

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**GaN POWER ADAPTER SET
W140A3C GaN + USB-C to USB-C Cable C520C
User Manual**



**Version 1.0 (24/08)
USB-CABLE
C520C
Charging / Data Cable**

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Technical details

Colour:	black
Material:	nylon and aluminium
Connectors:	nylon and aluminium
Data transmission speed:	480 Mbps
max. voltage:	48.0 V
max. current strength:	5.0 A
max. performance:	240.0 W
Fast Charging:	supports fast charging (PD 3.1 + QC 4.0) up to 240.0 W
Special features:	integrated e-marker chip for PD3.1 support, reinforced kink protection between USB connector and cable
Cable length:	2.0 m
Weight:	64 g

Chapter 2: Power Adapter



Please read this manual carefully and observe and follow all the instructions mentioned in it to ensure a long service life and reliable use of the device. Keep this manual handy and pass it on to other users of the device.

SAFETY

Intended use

This product is a power adapter for supplying power to, for example, smartphones, tablets, eBook readers, headphones, MP3 players and other USB-enabled devices. It is intended for indoor use only and must not be used outdoors. It may only be operated within the power limits specified in the technical data. Be sure to observe the safety instructions for use.

Any other use or use beyond what is specified is deemed as not intended use and can lead to damages and

injuries. This product is not intended for commercial use or for medical and special applications, where the failure of the product can cause injuries, mortalities or considerable material damages.

Claims of any type for damages resulting from use other than for the intended purpose or non-observance of the safety instructions are excluded.

The firmware and/or hardware may be changed at any time without prior notice. For this reason it is possible that parts of these instructions, technical data and images in this documentation differ slightly from the product in your possession. All points described in these instructions only serve the purpose of clarification and must not inevitably correspond to a certain situation. Legal claims cannot be made on the basis of these instructions.

Safety information

Dangers for children and persons with restricted physical, sensory or mental abilities

Children often underestimate dangers or do not recognise them at all. This device is not intended to be used by persons (including children) with restricted sensory, physical or mental abilities or lack of experience and/or knowledge, unless they are supervised by a person responsible for their safety or received instructions from the person on how to use the device and they have understood the resultant dangers. Unsupervised children should not have access to the device. Make sure that children do not play with the device.

Danger of asphyxiation!

Children can put the packaging film or small parts in their mouths and choke on them.

Risk of injury!

Use the product only in accordance with its intended use and in compliance with all safety instructions and within the technical performance limits. Failure to do so may result in danger to life due to electric shock!

Do not attempt to open the device. It does not require maintenance and must not be repaired independently. The warranty will be voided in this case. If the device is damaged, do not continue to use it under any circumstances to avoid possible injury! Also prevent other people from using the defective device.

Never connect or disconnect the device from the mains socket with wet hands! This could cause an electric shock and endanger your life! Do not simply disconnect a damaged device from the mains socket! Make sure beforehand that the mains supply is disconnected, for example by removing the fuse, in order to avoid a life-threatening electric shock!

Do not insert any objects not intended for use into the openings of the device. This could result in life-threatening injuries due to an electrical short circuit and/or a resulting fire. Before use, check that the device is suitable as a power adapter for the product to be connected. If it is not, do not use it to avoid injury and damage due to, for example, a short circuit.

Damage!

Keep the device away from any type of moisture and avoid dust, heat and direct sunlight.

Do not use it in the immediate vicinity of heat sources such as radiators.

Do not apply pressure to the housing, and use the product only if there is sufficient space for operation.

Avoid vibrations and do not drop the product.

Do not place containers filled with liquids (vases, glasses, etc.) on the device or in its immediate vicinity. There is a risk that the container will tip over and the liquid will affect the electrical safety.

To remove the device from the mains plug, always pull directly on the device and not on the cable.

Do not use water or chemical solutions to clean the device, use only a dry cloth.

If the device is brought from a cold room to a warm room, do not use it immediately. Condensation could occur, which may cause damage. Let it come to room temperature first after a reasonable period of time.

General safety instructions

Lay connected cables so that they do not pose a tripping hazard. Do not use damaged cables and do not crush or bend them.

Always use easily accessible mains sockets and disconnect the device from the power supply as a precaution in the event of a thunderstorm.

When using a multi-plug socket, make sure that the total permissible electrical power consumption is not exceeded.

If the device will not be used for a longer period of time, please disconnect it from the mains.

To avoid malfunctions, please also observe the operating instructions and safety instructions of the devices that are connected to the device.



CE marking says that this product meets the requirements of all EU Directives applicable for this product.



The UKCA marking says, that this product meets the requirements of all UK Directives applicable for this product.

SCOPE OF DELIVERY

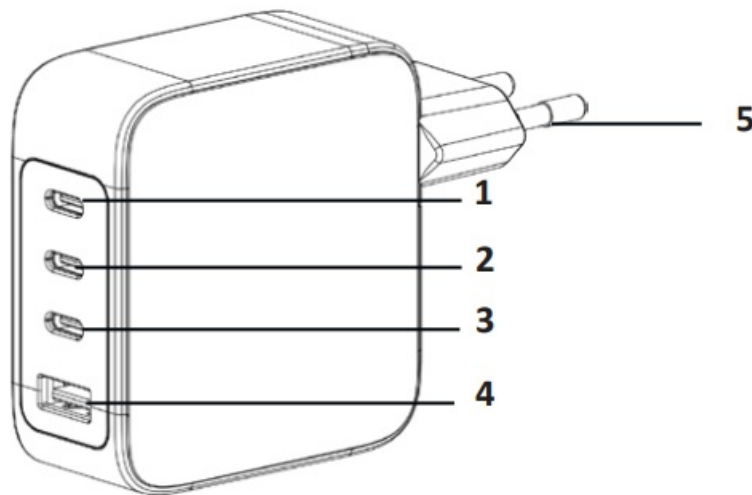
1. Intenso Power Adapter W140A3C GaN
2. Operating Instruction

Please check whether the contents of this package are complete and undamaged. If this is not the case, please contact the seller or our service department: rma@intenso-international.de

USER GUIDELINES

Product overview

- 1 – USB-C1 output
- 2 – USB-C2 output
- 3 – USB-C3 output
- 4 – USB-A output
- 5 – EU connector



Operation

Before use:

The device can be used worldwide due to the supported mains voltage of 100 – 240 volts. Please note that a country-specific adapter may be necessary. Before connecting, check whether the connected device is suitable for this power adapter. Pay particular attention to the required power in the operating manual of the device to be connected and also observe the instructions given there before using this power adapter. Information about the power limits of this product can be found in the technical data of this operating manual. Make sure that you have followed all the instructions in this manual.

Connecting the device:

Plug a suitable USB cable first into the device to be connected and then into the USB port of this device. Then plug the power adapter into the mains socket.

The connected device should now be properly powered.

If you are charging a device with a rechargeable battery, disconnect the device from the power supply again when it is fully charged.

If you are using a product without a battery, disconnect the device from the power supply when it will not be used for a long period of time.

Attention:

The output power of the available USB ports depends on the number and combination of USB ports being used. For details, please refer to the technical specifications in this user manual. This device supports Power Delivery (PD), PPS and QC for fast charging. No manual settings are required; the standards automatically negotiate the

voltage and power between the devices if the connected device also supports one of the standards. Due to the large number of different end devices that support these standards, there may be restrictions in the function, especially if the devices are already older and no longer have the latest software, and the connected device may only be charged normally.



Please also note that the cable you use must support the desired fast-charging standard and higher power output. For power up to 60 watts, a 20 V/3 A cable is required, and for higher power up to 140 watts, a 28 V/5 A cable is needed.

SERVICE/DISTRIBUTOR

INTENSO INTERNATIONAL GMBH | Kopernikusstraße 12-14 | D-49377 Vechta

Email (technical support):	support@intenso-international.de
Email (RMA number):	rma@intenso-international.de
Internet:	www.intenso.eu
Telephone (technical support):	+49 (0) 4441 – 999 111 (Mon.- Thurs. 09:00 a.m. – 4:30 p.m.; Fri. 09:00 a.m.- 2:00 p.m.)

DISPOSAL

	Disposal of old electronic equipment: The devices marked with this symbol are subject to the European Directive 2012/19/EC. All electrical appliances and old electrical appliances must be disposed of separate from the municipal waste stream via designated collection facilities appointed by the government or the local authorities. You avoid environmental damage with the proper disposal of old electrical equipment.
	Packaging: Packaging is raw material. The packaging material of this product is suitable for recycling and can be reused. Please follow local recycling regulations when disposing of any materials.

OPERATING CONDITIONS

Use the device at temperatures between 5 and 40 degrees Celsius and up to a maximum altitude of 2000 m above sea level. If you do not plan to use the device for a long time, store it between -20 to 65 degrees Celsius and charge it approximately every three months to maintain full performance. Use and store at a humidity that is between 10% and 90%.

TECHNICAL DATA

Model designation:	W140A3C GaN	
Dimensions (W/H/D):	67 x 31 x 100 mm	
Weight:	236 g	
Input voltage:	100 – 240 Volt	

Input alternating current frequency:	50 / 60 Hz	
Output voltage:	<p>supports (downwards compatible) PD 3.1, PPS and QC 4.0</p> <p>USB-C 1/2:</p> <p>5.0 V/DC 3.0 A, max. 15 watts</p> <p>9.0 V/DC 3.0 A, max. 27 watts</p> <p>12.0 V/DC 3.0 A, max. 36 watts</p> <p>15.0 V/DC 3.0 A, max. 45 watts</p> <p>20.0 V/DC 5.0 A, max. 100 watts</p> <p>28.0 V/DC 5.0 A, max. 140 watts</p> <p>PPS:5.0 – 21.0 V/DC 5.0 A, max. 105 watts</p> <p>USB-C 3/USB-A:</p> <p>5.0 V/DC 3.0 A, max. 15 watts</p> <p>9.0 V/DC 3.0 A, max. 27 watts</p> <p>12.0 V/DC 2.5 A, max. 30 watts</p> <p>USB-C 3 PPS: 3.3 – 11.0 V/DC 3.0 A, max. 30 watts</p> <p>USB-C 1 + USB-C 2 (respectively):</p> <p>5.0 V/DC 3.0 A, max. 15 watts</p> <p>9.0 V/DC 3.0 A, max. 27 watts</p> <p>12.0 V/DC 3.0 A, max. 36 watts</p> <p>15.0 V/DC 3.0 A, max. 45 watts</p> <p>20.0 V/DC 3.5 A, max. 70 watts</p> <p>USB-C 3 + USB-A:</p> <p>5.0 V/DC 3.6 A, max. 18 watts (shared)</p> <p>USB-C 1/2 + USB-C 3:</p> <p>USB-C 1/2:</p> <p>5.0 V/DC 3.0 A, max. 15 watts</p> <p>9.0 V/DC 3.0 A, max. 27 watts</p> <p>12.0 V/DC 3.0 A, max. 36 watts</p> <p>15.0 V/DC 3.0 A, max. 45 watts</p> <p>20.0 V/DC 5.0 A, max. 100 watts</p> <p>USB-C3:</p> <p>5.0 V/DC 3.0 A, max. 15 Watt</p> <p>9.0 V/DC 3.0 A, max. 27 Watt</p> <p>12.0 V/DC 2.5 A, max. 30 Watt</p> <p>USB-C 1 + USB-C 2 + USB-C 3:</p> <p>USB-C 1:</p> <p>5.0 V/DC 3.0 A, max. 15 watts</p> <p>9.0 V/DC 3.0 A, max. 27 watts</p> <p>12.0 V/DC 3.0 A, max. 36 watts</p> <p>15.0 V/DC 3.0 A, max. 45 watts</p> <p>20.0 V/DC 3.25 A, max. 65 watts</p> <p>USB-C 2:</p> <p>5.0 V/DC 3.0 A, max. 15 watts</p> <p>9.0 V/DC 3.0 A, max. 27 watts</p> <p>12.0 V/DC 3.0 A, max. 36 watts</p> <p>15.0 V/DC 3.0 A, max. 45 watts</p> <p>20.0 V/DC 2.25 A, max. 45 watts</p> <p>USB-C 3:</p> <p>5.0 V/DC 3.0 A, max. 15 watts</p> <p>9.0 V/DC 3.0 A, max. 27 watts</p> <p>12.0 V/DC 2.5 A, max. 30 watts</p>	<p>USB-C 1 + USB-C 2 + USB-A:</p> <p>USB-C 1:</p> <p>5.0 V/DC 3.0 A, max. 15 watts</p> <p>9.0 V/DC 3.0 A, max. 27 watts</p> <p>12.0 V/DC 3.0 A, max. 36 watts</p> <p>15.0 V/DC 3.0 A, max. 45 watts</p> <p>20.0 V/DC 3.25 A, max. 65 watts</p> <p>USB-C 2:</p> <p>5.0 V/DC 3.0 A, max. 15 watts</p> <p>9.0 V/DC 3.0 A, max. 27 watts</p> <p>12.0 V/DC 3.0 A, max. 36 watts</p> <p>15.0 V/DC 3.0 A, max. 45 watts</p> <p>20.0 V/DC 2.25 A, max. 45 watts</p> <p>USB-A:</p> <p>5.0 V/DC 3.6 A, max. 18 watts</p> <p>9.0 V/DC 2.0 A, max. 18 watts</p> <p>12.0 V/DC 1.5 A, max. 18 watts</p> <p>USB-C 1/2 + USB-A:</p> <p>USB-C 1/2:</p> <p>5.0 V/DC 3.0 A, max. 15 watts</p> <p>9.0 V/DC 3.0 A, max. 27 watts</p> <p>12.0 V/DC 3.0 A, max. 36 watts</p> <p>15.0 V/DC 3.0 A, max. 45 watts</p> <p>20.0 V/DC 5.0 A, max. 100 watts</p> <p>USB-A:</p> <p>5.0 V/DC 3.0 A, max. 15 watts</p> <p>9.0 V/DC 3.0 A, max. 27 watts</p> <p>12.0 V/DC 2.5 A, max. 30 watts</p> <p>USB-C 1/2 + USB-C 3 + USB-A:</p> <p>USB-C 1/2:</p> <p>5.0 V/DC 3.0 A, max. 15 watts</p> <p>9.0 V/DC 3.0 A, max. 27 watts</p> <p>12.0 V/DC 3.0 A, max. 36 watts</p> <p>15.0 V/DC 3.0 A, max. 45 watts</p> <p>20.0 V/DC 5.0 A, max. 100 watts</p> <p>USB-C 3 + USB-A:</p> <p>5.0 V/DC 3.6 A, max. 18 watts (shared)</p> <p>USB-C 1 + USB-C 2 + USB-C 3 + USB-A:</p> <p>USB-C 1:</p> <p>5.0 V/DC 3.0 A, max. 15 watts</p> <p>9.0 V/DC 3.0 A, max. 27 watts</p> <p>12.0 V/DC 3.0 A, max. 36 watts</p> <p>15.0 V/DC 3.0 A, max. 45 watts</p> <p>20.0 V/DC 3.25 A, max. 65 watts</p> <p>USB-C 2:</p> <p>5.0 V/DC 3.0 A, max. 15 watts</p> <p>9.0 V/DC 3.0 A, max. 27 watts</p> <p>12.0 V/DC 3.0 A, max. 36 watts</p> <p>15.0 V/DC 3.0 A, max. 45 watts</p> <p>20.0 V/DC 2.25 A, max. 45 watts</p> <p>USB-C3 + USB-A:</p> <p>5.0 V/DC 3.6 A, max. 18 watts (shared)</p>

Average efficiency in operation:	90.09%	
Efficiency at low load (10%):	84.94%	
Power consumption at zero load:	0.16 watts	

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Documents / Resources

	<p>Intenso W140A3C Gan Power Adapter Set [pdf] User Manual</p> <p>W140A3C, C520C, W140A3C Gan Power Adapter Set, W140A3C, Gan Power Adapter Set, Power Adapter Set, Adapter Set, Set</p>
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References

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