3mk incharge® Lumin 45W™

Charger

User manual

EN

Product Presentation:
The 3mk InCharge Lumin PD 45W is a compact GaN network charger with 45 W of power, equipped with a colour TFT display that shows charging parameters in real time, as well as the Mood-Booster function.

Package Contents:
• 3mk InCharge Lumin PD 45W network charger (1× USB-C port) • Quick user guide/warranty card
Note: charging cable is not included in the package

Technical Specification:
• Product name: 3mk InCharge Lumin PD 45W • Model: INCL45W1CPD • EAN: 5903108779852 • Input: 100–240V~ 50/60Hz, 1.2A Max • Output PD3.0: 5V/3A, 9V/3A, 15V/3A, 20V/2.25A • Output PPS: 5–11V/5A, 5–16V/3A as well as 5–11V/4.05A, 5–16V/2.8A (44.8W) • Output AVS: 9–15V/3A, 15–20V/2.25A (45W) • Other protocols: Apple 2.4A, Samsung 5V/2A, DCP 5V/1.5A, QC2.0/3.0/4.0+, AFC, FCP, SCP, UFCS • Average active efficiency (at the lowest USB-C output voltage, 5V/3A): 89.02% (requirement under (EU) 2019/1782: ≥ 81.385%) • Efficiency at 10% load: 80.63% • Power consumption without load (no-load): 0.074 W • Technology: GaN • Dimensions: 42.1 × 36.1 × 33.9 mm (without plug) • Housing/material: PC V0 plastic (fire-resistant), anti-fingerprint coating • Finish/colour: Grey • Protections: Overcurrent, short-circuit, thermal, overvoltage (input) • Operating modes: Auto (max. speed) / Care (battery protection) • Display: Colour TFT — live charging parameters, Mood-Booster animation
Note on Care mode: after cancelling charging in Care mode, the next charge starts by default in Auto mode.

C. Configurations and Compatibility
• iPhone (17 / 16 / 15 / 14): Recognition of the exact model on the display • Samsung: The display shows the generic name "Samsung" (without a specific model) • MacBook: Supported (charging according to the protocols in section B) • Handheld consoles: Supported • Power banks: Supported • Drones: Supported • Cameras: Supported • Other smartphones: Supported (charging according to the protocols in section B)
Before use, check whether your device supports one of the charging protocols listed in section B (PD, PPS, AVS, QC, etc.). Maximum power and charging time depend on the capabilities of the device being charged and the cable used.

D. Installation and Use
1. Plug the charger into a 100–240V mains socket. A logo will appear on the display (approx. 3 s), and on first use of the product, a screen showing the maximum power of 45 W will also appear.
2. Connect a USB-C cable (not included in the package) to the charger's port and to the device being charged.
3. The TFT display will show the charging parameters (voltage, current, power), and for supported iPhone models, also the device name and battery charge level.
4. Selecting the charging mode: on the mode selection screen, press and hold the touch button to switch between Auto and Care modes. The icon of the selected mode will start flashing, and the mode will be confirmed automatically, with no further action needed.
5. If no device is connected or charging has finished, the Mood-Booster animation will appear on the display after 15–30 minutes.
6. Once charging is finished, disconnect the device, then unplug the charger from the socket. The display will immediately show a summary of the energy delivered during that charging session.

Controlling the Display with the Touch Button
The charger is equipped with a touch button on the top of the housing, used to control the display. Available gestures:
• Single tap — switches between information screens (including current total power, AI temperature control, charging status), and wakes the display from the off state.
• Press and hold on the mode selection screen — switches between available charging modes (see step 4 above). • Press and hold the button for 3–5 seconds (without reaching 5 s), then release — manually turns off the display on any view. This also works when the port is empty in standby state and pauses the standby animation – it will only return after a single tap or when a device is connected. • Press and hold the button for 5 seconds, then release — rotates the display 90° clockwise. The set orientation is retained even after the charger is unplugged from power.

Display Indications
• Main screen background colour: blue in Auto mode (fast charging), green in Care mode (device protection). • The lightning bolt icon flashes during active energy transfer and becomes static when the transfer is paused. • Device recognition: automatically once it is connected; after correct identification, the model name appears on the display, and for supported phones, also a battery level indicator updated in real time. • The temperature control bar changes in real time according to the charger's operating temperature; depending on the temperature, the display may automatically change the view/mode to protect the device.

Automatic Display Behaviour
• No device connected: after 5 seconds of inactivity on the total power screen, the display switches to a dynamic sleep animation (the smiley face gradually closes its eyes, shows a "Zzz" animation, then blinks), and after a further 10 seconds without interaction, it turns off completely. • Connected device charging: by default, the display remains permanently on for the entire duration of charging (it can be turned off manually using the gesture described above). • In the off state, if it has not been triggered manually, every 15–30 minutes an animation of a smiling, blinking face briefly appears (Mood-Booster). • The display remembers the content shown during the previous charging session and restores it for the duration of the current charging cycle. • Disconnecting the device being charged, on any screen, immediately shows a summary of the energy delivered during that session.

E. Safety Rules
• Before use, check that the mains voltage matches the parameters given in section B. • Use the charger in a dry, well-ventilated room, away from heat sources. • Do not immerse the charger in water or other liquids. • Do not use the charger if the housing or socket is damaged, or if there are visible signs of liquid ingress — risk of electric shock. • Do not repair the charger yourself; in case of a fault, contact an authorised service centre. • Store at room temperature, away from moisture and direct sunlight. • The charger is equipped with protection against overcurrent, short-circuit, overheating, and overvoltage (input), which automatically interrupts charging if a fault is detected. • The product contains small parts — keep out of reach of children under 3 years old, choking hazard. • Do not cover the charger during operation — risk of overheating.

F. Environmental Protection and Disposal
The crossed-out wheelie bin symbol means that, at the end of its service life, the product must not be disposed of with household waste. It must be handed in to a collection point for waste electrical and electronic equipment (WEEE). Proper disposal protects the environment and human health.

G. Troubleshooting
• The device is not charging → check whether the cable and the device being charged support the PD/PPS/AVS or QC protocol (see section B); try a different USB-C cable. • Charging is slower than expected → check whether Care mode is active (green screen background); on the mode selection screen, press and hold the touch button to switch to Auto mode (blue screen background). • The display shows a generic name instead of the phone model → applies to Samsung phones — the display only recognises the brand, not the specific model. • The display turns off despite power being connected → if no device is charging, the Mood-Booster animation activates after 15–30 min, after which the display enters standby mode. • The charger is warm to the touch → this is normal when operating at full power; if the housing is very hot or you notice a burning smell, disconnect from power immediately and contact service. • The touch button is not responding → make sure its surface is dry and clean; a tap shorter than 3 s is recognised as a single tap, not as a press-and-hold. • The display remains in the wrong orientation → press and hold the touch button for 5 seconds, then release to rotate the display by a further 90°.

Warranty:
Improper use or improper placement of this product by users may result in reduced service life or damage, and any resulting damage is not covered by the warranty or by the manufacturer's liability. The warranty covers manufacturing defects and material defects. The manufacturer's warranty is 24 months.

Disposal and Recycling Information:
The presence of the WEEE symbol means that, at the end of its use, the product must not be treated as household waste. It must be handed in to a designated collection point for electrical and electronic waste for recycling.

Declaration of Conformity:
3mk Protection Sp. z o.o. hereby declares that the product complies with the relevant harmonised EU legislation: 2014/35/EU (LVD); 2014/30/EU (EMC); 2011/65/EU (RoHS). The full text of the declaration of conformity is available at the following web address (3mk.global/manual).

Designed in Poland by:
3mk Protection Sp. z o.o.
Krotoszyńska 33, B-02/4a
63-400 Ostrów Wielkopolski
VAT ID PL 6222883086
3mk@3mk.pl
Made in China.