JT500 - 12 V submersible water pump

Third-party web instruction and specification archive

Vanlife Fabrika catalogue photograph for offer #64: grey JT500 pump with a DC barrel connector.

Manuals+ / Seablue source image: the same JT-500 enclosure family, shown with a three-wire cable.

Catalogue product	Offer #64 - Pogruzhnoy nasos dlya vody 12V JT500
Exact model marking	JT500 / JT-500
Catalogue supplier field	JT
Additional marking visible in catalogue imagery	CHUANG JIE SI
Document class	Researcher-created archive of exact-model third-party web sources
Research snapshot	22 July 2026

No manufacturer-issued JT500 manual or official support page was found. This file is not an original CHUANG JIE SI, JT or Seablue manual. It preserves model-specific third-party evidence and separates portable safety guidance from claims that still require verification on the actual pump.

The Manuals+ guide is branded Seablue and its photographs show exposed brown, blue and yellow conductors. The catalogue unit uses a barrel connector. Do not cut the connector or transfer the source's wire-colour instructions to offer #64; polarity and connector pinout must be confirmed for the supplied unit.

1. Product identity and analogue boundary

Catalogue photograph: JT500 body, outlet, inlet fins and connector variant.

Manuals+ / Seablue photograph: JT-500 body and three-wire variant.

Evidence	Catalogue offer #64	Third-party JT-500 sources
Model	JT500 in title and label imagery	JT500 / JT-500 explicitly named
Enclosure	Grey stepped cylinder; one outlet; bottom inlet fins	Same distinctive arrangement
Nominal supply	12 V DC	12 V DC across Manuals+, Pixel, Microscale and ABRA
Catalogue dimensions	106 x 34 x 38 mm	105.9 x 33.3 x 38.33 mm (Pixel); 106 x 33.2 x 38 mm (Microscale)
Claimed performance	600 L/h; 5 m; 17 W	600 L/h and 5 m common; power varies by source
Electrical termination	DC barrel connector	Mostly exposed three-wire cable
Applicability result	Exact model-family match	Basic pump use and dimensions apply; wiring does not

The model, distinctive enclosure, nominal voltage and near-identical dimensions support use of the third-party JT-500 material as an exact-model-family analogue. The connector difference is material: the archive therefore excludes pinout and wire-colour instructions from the applicable guidance.

A matching shell does not establish food-contact approval, drinking-water suitability, IP rating, salt-water compatibility, motor construction, fuse size, continuous-duty rating or warranty for the delivered unit.

2. Consolidated specifications and conflicts

Property	Common or strongest exact-model evidence	Status for offer #64
Model	JT500 / JT-500	Confirmed by title and catalogue imagery
Rated voltage	12 V DC	Confirmed
Working voltage	6-15 V in Manuals+, Microscale and ABRA	Third-party claim; actual label takes priority
Rated current	1.2 A in all detailed third-party listings	Third-party claim
Power	14.5 W Pixel; 17 W Manuals+; other sellers report 15-24 W	Conflicting; catalogue uses 17 W
Maximum flow	600 L/h	Consistent maximum, not guaranteed operating flow
Maximum head	5 m	Consistent maximum, normally at near-zero flow
Dimensions	Approx. 106 x 33-40 x 38-40 mm	Matches catalogue 106 x 34 x 38 mm
Outlet	About 12 mm OD / 9-9.7 mm ID in seller sources	Measure actual outlet before selecting hose
Noise	<35 dB, <45 dB or <=50 dB depending on source	Unresolved

Conflicts that must remain unresolved

Motor	Pixel describes brushless; Microscale and ABRA describe brushed
Water temperature	Manuals+ says maximum 40 C; other listings also publish ranges reaching 60 C
Duty cycle	Manuals+ says avoid more than 24 consecutive hours; ABRA warns against continuous use
Liquids	Some sellers claim tap, ground or sea water; no material or certification file proves this for offer #64
Ingress protection	Pixel and some sellers claim IP68; no manufacturer test report was found

Use the most conservative source limit only as a temporary operating boundary, not as a newly certified rating. Confirm the actual pump label and obtain supplier data before publishing any disputed value as fact.

3. Safe-use summary that transfers to the catalogue unit

The following summary is limited to generic submersible-pump practices repeated by the exact-model sources. It is not a substitute for verified connector, fuse and installation data.

Before use	Inspect the housing, cable and connector. Confirm 12 V DC on the actual label and verify connector polarity with the supplier or a documented matching adapter.
Placement	Put the pump fully under cool, clean water before energising. Keep the inlet clear and do not suspend the pump by its cable.
Dry running	Do not run dry. This pump is not self-priming and is not intended to draw water while installed on dry land.
Power	Use a stable protected 12 V DC circuit. Fuse and cable size must follow verified unit data; the third-party pages do not establish those values for the barrel-connector variant.
Operation	Switch the pump manually unless a separate approved controller is installed. Monitor flow, noise, temperature and leaks. Stop immediately if flow falls or the pump becomes abnormal.
Water	Until material and certification evidence is obtained, use only clean non-potable fresh water. Do not claim drinking-water, chemical or seawater suitability.
After use	Disconnect power, remove debris from the inlet without opening the sealed motor body, rinse with clean water if appropriate, drain and store dry.

Basic troubleshooting

No start	Disconnect power; check source voltage, circuit protection, connector seating and verified polarity. Do not probe or short the connector.
Low or no flow	Disconnect power; ensure full submersion, clear inlet/outlet and remove hose restrictions. Maximum head and maximum flow cannot occur together.
Noise or vibration	Disconnect power; check for debris and contact with the tank. Replace the pump if the housing, cable or connector is damaged.

Do not open the pump body, defeat circuit protection, cut the moulded connector, or infer the barrel pinout from the brown/blue/yellow instructions shown for another cable variant.

4. Source register and provenance

Manuals+ / Seablue	Exact JT-500 web instruction page; 12 V, 6-15 V, 1.2 A, 17 W, 600 L/h, 5 m and generic use guidance. Independent site, not endorsed by trademark owners.
Manuals+ PDF endpoint	The site reports an application/pdf file, 6 pages, approximately 496.42 KB. The protected file was not used as the stored library document, so no source-PDF checksum is asserted.
Pixel Electric / diymore	Exact JT500 listing; 105.9 x 33.3 x 38.33 mm, 12 V, 1.2 A, 14.5 W, 600 L/h and 5 m; contains unsupported or conflicting IP68, temperature and brushless claims.
Microscale	Exact JT-500 listing; 106 x 33.2 x 38 mm, 12 V, 1.2 A, 600 L/h, 5 m and both bare-wire/female-connector variants; contains conflicting temperature and motor statements.
ABRA Electronics	Exact JT500 three-wire listing; 98 x 38 mm, 12 V, 1.2 A, 600 L/h and 5 m; identifies a brushed motor and warns against continuous use.
Catalogue photographs	Offer #64 images used only for product identification and connector comparison; they are not a documentation source.

Manuals+ exact-model guide: manuals.plus/ae/4001175800023
Protected source PDF endpoint: manuals.plus/m/...pdf
Pixel Electric exact listing: JT500 DC12V 5M 600L/H
Microscale exact listing: JT-500 12 V submersible pump
ABRA exact listing: MOT-RS-500 / JT500

What this archive does not establish

No source found establishes the original manufacturer, production revision, barrel-connector pinout, fuse size, cable gauge, controller compatibility, potable-water approval, CE/RoHS authenticity, ingress test, warranty or service procedure for the actual Vanlife Fabrika shipment. Those items remain unresolved.

Archive method: each exact-model source was checked individually; matching dimensions and photographs were used for applicability; conflicts were retained; no data from the existing Vanlife Fabrika manual library was used.