

JET

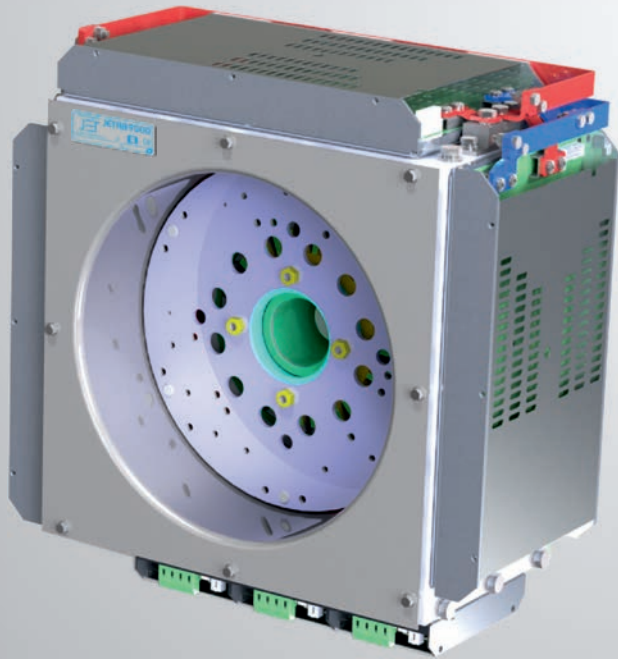
WIDE TEMPERATURE RANGE ULTRA-LOW PROFILE MODULES



Goncharov Electric JET – is a European manufacturer of power supply systems and blocks. In our job, we are fully concentrated on priority of providing our clients with competitive performance for their equipment.

We carefully evaluate requirements to the equipment, for which the power supply system is needed - in particular, design and heat dissipation parameters, EMC requirements, reliability performance, necessity of additional functions, etc. As a result, we offer an integrated system, in which manufacturer solves problems of energy efficiency, thermal conditions, EMC and others in full compliance with the customer's requirements.

If you need a turnkey power supply system, with EFA-resistance and ability to operate in extremely wide temperature range, this catalog is for you.



AC/DC POWER SUPPLY BLOCK JETAB9000 FOR OPERATION WITH DIESEL GENERATORS

POWER SYSTEM THAT CONSISTS OF THREE PLANAR AC/DC MODULES CONNECTED IN PARALLEL, POWERFUL ISOLATION DIODES AT THE OUTPUT AND FILTERS.

HEAT SINK WITH ADDITIONAL HOUSING AND GENERATOR FAN FORM A FINISHED COOLING SYSTEM FOR ENABLING STABLE OPERATION OF THE BLOCK WITH THE POWER UP TO 9000 W AND AMBIENT TEMPERATURE UP TO +55 °C. PLANAR DESIGN OF POWER SUPPLIES AND FILTERS (PROFILE IS 39 MM IN HEIGHT!) ALLOWS INSTALLING A BLOCK INTO ASSUMED CYLINDRICAL CAPACITY WITH 283 MM IN RADIUS AND 215 MM IN HEIGHT!

POWER BLOCK CONTROL GEAR ALLOWS OUTPUT VOLTAGE ADJUSTMENT WITHIN RANGE FROM 25 V TO 30 V, REMOTE ON/OFF FUNCTION, OPERATION AND PERFORMANCE DIAGNOSTICS, AND, MOREOVER, FULL PROTECTION COMPLEX, SUCH AS OUTPUT OVER CURRENT AND SHORT CIRCUIT PROTECTION, OVERHEAT PROTECTION AND OUTPUT OVERVOLTAGE PROTECTION.

DIMENSIONS OF THE BLOCK (L x W x H) ARE 400 x 215 x 390 mm³.
DIAMETER OF THE HOLE (FOR GENERATOR PLACEMENT, FOR EXAMPLE, LOMBARDINI) INSIDE THE BLOCK IS UP TO 254 MM.

ADVANTAGES:

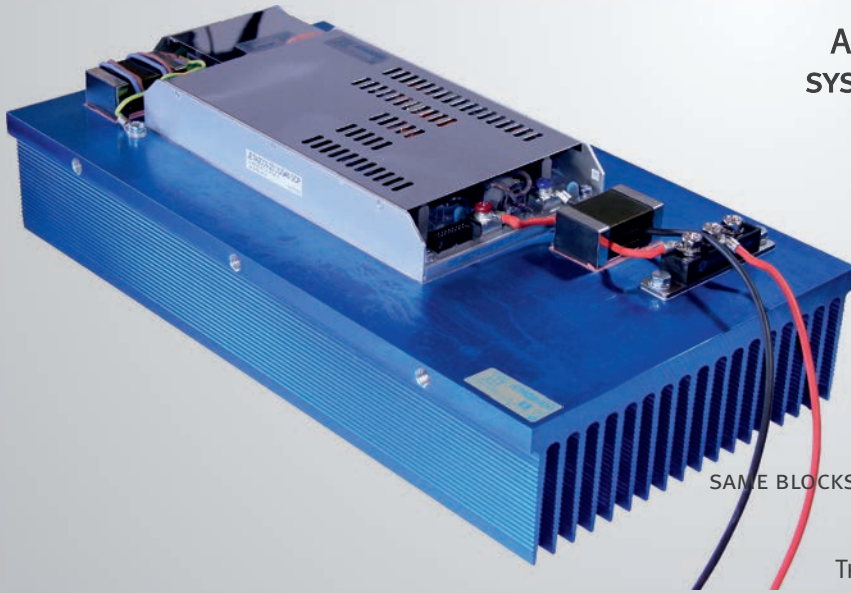
POWER SUPPLY BLOCK HAS INTEGRATED COOLING SYSTEM.

EXCEPTIONALLY-SHAPED HEAT SINK WITH MAXIMUM EFFICIENCY IS USED – ITS DIMENSIONS AND WEIGHT ARE ULTIMATELY REDUCED DUE TO ELABORATION OF SOLUTIONS ON MULTI-CRITERIA ENERGY, HEAT AND EMC PARAMETERS OPTIMIZATION.

THE POWER SUPPLY SYSTEM HAS HIGH EFFICIENCY UP TO 92 %.

IT IS SUPPLIED AS A STAND-ALONE PRODUCT WITH HIGH MECHANICAL STRENGTH – THEY CAN WITHSTAND LOAD IMPACT AND ARE ABLE TO OPERATE IN HARSH CONDITIONS, SUCH AS DUST, INCREASED HUMIDITY AND SALT FOG.

AC/DC POWER SUPPLY BLOCK JETAB2000 FOR SYSTEMS WITH INCREASED EMC REQUIREMENTS



POWER BLOCK ON THE BASIS OF PLANAR LOW-PROFILE POWER SUPPLY JETA2000, INSTALLED ON A HEAT SINK AND OPERATING IN CONDITIONS OF NATURAL CONVECTION AIR COOLING. AT THE INPUT AND OUTPUT TERMINALS OF THE BLOCK THERE ARE SPECIAL FILTERING AND DISTRIBUTION ELEMENTS INSTALLED FOR EMC CHARACTERISTICS IMPROVEMENT AND PARALLEL OPERATION IMPLEMENTATION WITH SIMILAR BLOCKS.

THE DEVICE HAS INCREASED INTEGRATION OPPORTUNITIES - PARALLEL OPERATION OF A NUMBER OF SAME BLOCKS AND SPECIALLY ALLOCATED PLACE FOR FUNCTIONAL PARTS PLACEMENT BY THE CUSTOMER.

THE POWER BLOCK IS DESIGNED WITH REGARD TO MAXIMUM ENERGY EFFICIENCY REQUIREMENTS - FOR OPERATION IN LIMITED SPACE CONDITIONS WITH MAXIMUM AMBIENT TEMPERATURE UP TO +50 °C WITHOUT FAN.

THE BLOCK HAS FULL COMPLEX OF NECESSARY PROTECTION: OVERLOAD AND SHORT CIRCUIT, OUTPUT OVERVOLTAGE, OVERHEATING.

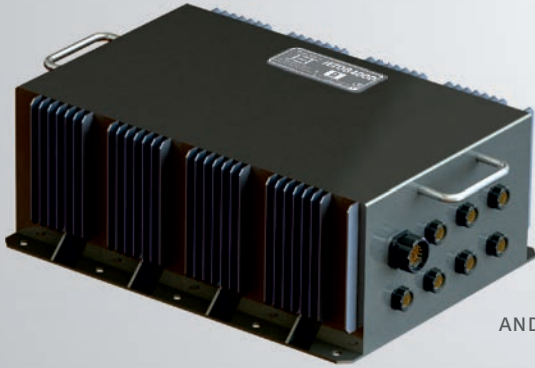
ADVANTAGES:

FUNCTIONAL PERFORMANCE OF THE BLOCK IN CONDITIONS UP TO +50 °C PROVIDED NATURAL CONVECTION AIR COOLING.

THE POWER SUPPLY SYSTEM HAS HIGH EFFICIENCY UP TO 92 %.

ENERGY EFFICIENCY, THERMAL MODE AND EMC ISSUES ARE COMPLETELY RESOLVED FOR THE CUSTOMER - AS A MANUFACTURER, WE GUARANTEE COMPLIANCE OF OUR PRODUCTS TO ALL OF THESE REQUIREMENTS.

HIGH-VOLTAGE DC/DC POWER BLOCK JETDB4000



THE BLOCK CONSISTS OF TWO INDEPENDENT PLANAR DC/DC CONVERTERS WITH INDEPENDENT OUTPUT PROTECTION SCHEMES. TOTAL OUTPUT POWER OF THE BLOCK IS 4000 W.

THE FIRST CONVERTER HAS 1500 W (OUTPUT VOLTAGE 320 V) WITH INDEPENDENT OUTPUT PROTECTION SCHEMES.

THE SECOND CONVERTER HAS 2000 W (OUTPUT VOLTAGE 28 V) AND CONSISTS OF 6 INDEPENDENT MODULES, EACH WITH 420 W OF POWER AND WITH SEPARATE OUTPUT CONNECTORS AND INDEPENDENT OUTPUT PROTECTION SCHEMES.

HIGH-VOLTAGE DC/DC POWER BLOCK JETDB16500

THE BLOCK CONSISTS OF TWO INDEPENDENT PLANAR DC/DC CONVERTERS, PLACED WITHIN COMMON CASE AND CONNECTED WITH INDEPENDENT PROTECTION SCHEMES THROUGH SEPARATE INPUTS.

THE FIRST CONVERTER HAS 13 kW (OUTPUT VOLTAGE 28 V) AND CONSISTS OF 5 INDEPENDENT MODULES, EACH WITH 2600 W OF POWER AND WITH SEPARATE OUTPUT CONNECTORS AND INDEPENDENT OUTPUT PROTECTION SCHEMES.

THE SECOND CONVERTER HAS 3500 W (OUTPUT VOLTAGE 28 V) AND CONSISTS OF 6 INDEPENDENT MODULES, EACH WITH 580 W OF POWER AND WITH SEPARATE OUTPUT CONNECTORS AND INDEPENDENT OUTPUT PROTECTION SCHEMES.



DEMONSTRATION DEVICES EVA-JETA1200 AND EVA-JETA2000

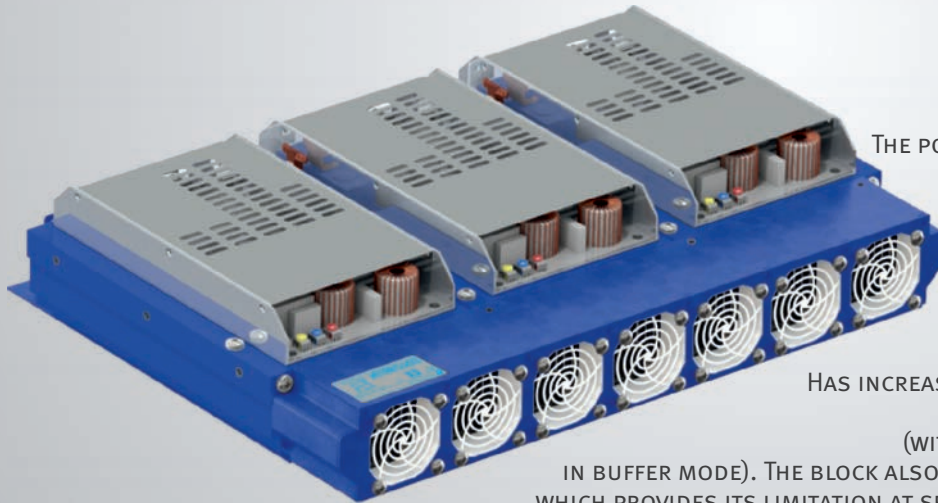


EVA-JETA DEVICES ARE DEMONSTRATION COMPLEXES OF A SET OF JETA1200 (EVA-JETA1200) OR JETA2000 (EVA-JETA2000) POWER SUPPLIES, CONNECTED IN PARALLEL. IT IS DESIGNED TO ACCOMPLISH TECHNOLOGY OF HIGH-PERFORMANCE POWER SYSTEMS CREATION ON THE BASIS OF AC/DC PLANAR POWER SUPPLIES, CONNECTED IN PARALLEL, IN CONVECTION AIR COOLING, PROVIDED YOUR SPECIFIC OPERATING CONDITIONS (UPON REQUEST, THEY CAN BE PRODUCED WITH A FAN COOLING).

EVA-JETA POSSESS NECESSARY COOLING SYSTEM, INDICATION, CONTROL AND WARNING INTERFACES, AND ALLOWS YOU CREATING OF RESERVED POWER SYSTEMS 2+1 (WITH AN ABILITY TO IMPLEMENT “HOT” SWAP OF ONE OF THE MODULES), ALONG WITH POWER INCREASE SYSTEMS OUT OF A NUMBER OF MODULES CONNECTED IN PARALLEL. THE DEVICES ARE ALSO EQUIPPED WITH OVERLOAD, SHORT CIRCUIT AND THERMAL PROTECTION.

EVA-JETA DEMONSTRATION DEVICES ARE COMPLETELY FINISHED PRODUCTS, WHICH CAN BE USED NOT ONLY FOR TESTING OF PARALLEL OPERATION OF MODULES, BUT ALSO AS SEPARATE SELF-CONTAINED POWER SYSTEMS IN DIFFERENT PROJECTS.

AC/DC POWER BLOCK JETAB3600



THE POWER BLOCK CONSISTS OF THREE PLANAR JETA1200 AC/DC POWER SUPPLIES, INSTALLED ONTO THE COMMON ALUMINUM HEAT SINK WITH COOLING FANS. IT IS DESIGNED FOR APPLICATION IN HARSH ENVIRONMENTS WITHIN THE TEMPERATURE RANGE FROM -40 °C TO +85 °C AND INCREASED HUMIDITY UP TO 95 %.

HAS INCREASED ENERGY EFFICIENCY - MAXIMUM OUTPUT POWER UP TO 3600 W, LOAD CURRENT UP TO 133 A (WITH ABILITY TO OPERATE FOR ACCUMULATOR BATTERY IN BUFFER MODE). THE BLOCK ALSO POSSESSES OUTPUT CURRENT LIMITATION SYSTEM, WHICH PROVIDES ITS LIMITATION AT SET LEVEL, IN CASE THE LOAD IS INCREASED FROM ITS NOMINAL VALUE TO SHORT CIRCUIT AT THE OUTPUT.

THE BLOCK ALSO HAS THERMAL PROTECTION, AND UNDERGOES ALL KINDS OF TEMPERATURE AND MARGINAL TESTS, INCLUDING BURN-IN TESTING WITH EXTREME ON/OFF MODES.

DIMENSIONS OF THE BLOCK (L x W x H) ARE 430 x 320 x 87 mm³.

ADVANTAGES:

PFC INCLUDED

SPECIALY-DESIGNED MULTI-FAN COOLING SYSTEM PROVIDES EQUAL DISTRIBUTION OF OPERATING TEMPERATURE ALONG THE SURFACE OF THE BLOCK. THAT SIGNIFICANTLY IMPROVES THE RELIABILITY OF DEVICE.

THE BLOCK IS A STAND-ALONE PRODUCT AND HAS INCREASED INTEGRATION OPPORTUNITIES - WITH SMART FUNCTION OF PARALLEL OPERATION FOR POWERFUL POWER SYSTEMS IMPLEMENTATION WITH RESERVATION/POWER INCREASE OPTIONS.

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