

## JETDi – DC/DC converters in metal cases without mounting holes DIP24, 1"x 1", 2"x 1", quarter BRICK

Nominal output power, W	Units	Case	Dimensions, mm	Maximal output current, A	Output voltage, VDC	Typical efficiency, %	Power density, W/In <sup>3</sup>	Number of outputs	Input 12 (10.2...15VDC)	Input 12W (10.2...30VDC)	Input 24 (20...30VDC)	Input 24W (20...60VDC)	Input 27 (20...40VDC)	Input 27W (15...50VDC), standard input	Input 48 (36...75VDC)	Operating temperature range of case -40...+110°C <sup>1</sup>	Isolation input/output, kVDC	Remote Onn/Off	Trimmer	Standard EMC EN55022	
																				Class B	Class A
10 15 20	JETDi10 JETDi15 JETDi20	C1 (DIP 24)	32x21x10	2 4 6	3...60	90	50	1,2	•	•	•	•	•	•	•	•	1.5	•	•	With filter JETDF2.5	•
15 20 30	JETDi15 JETDi20 JETDi30	C2 (1"x 1")	26x26x10	3 4 6	3...60	90	72	1,2	•	•	•	•	•	•	•	•	1.5	•	•	With filter JETDF2.5	•
40 50 60	JETDi40 JETDi50 JETDi60	C3 (2"x 1")	51x26x10	8 10 12	3...60	90	73	1,2	•	•	•	•	•	•	•	•	1.5	•	•	With filter JETDF5	•
80 100 120	JETDi80 JETDi100 JETDi120	C4 (quarter BRICK)	58x37x11	16 20 20	3...60	90	92	1	•	•	•	•	•	•	•	•	1.5	•	•	With filter JETDF10	•

Notes:

- - Available; 1 – for special request -60 °C...+130 °C

## JETDiR – DC/DC converters in reinforced metal cases with mounting holes

Nominal output power, W	Units	Case	Dimensions, mm	Maximal output current, A	Output voltage, VDC	Typical efficiency, %	Power density, W/ln <sup>3</sup>	Number of outputs	Input 12 (10.2...15VDC)	Input 12W (10.2...30VDC)	Input 24 (20...30VDC)	Input 24W (20...60VDC)	Input 27 (20...40VDC)	Input 27W (15...50VDC), standard input	Input 48 (36...75VDC)	Operating temperature range of case -40...+110°C <sup>1</sup>	Isolation input/output, kVDC	Remote Onn/Off	Trimmer	Standard EMC EN55022	
																				Class B	Class A
15 20	JETDi15R JETDi20R	R1	32x21x10	3 4	3...60	90	50	1	•	•	•	•	•	•	•	•	1.5	•	•	With filter JETDF2.5	•
20 30	JETDi20R JETDi30R	R2	26x26x10	4 6	3...60	90	72	1	•	•	•	•	•	•	•	•	1.5	•	•	With filter JETDF2.5	•
50 60	JETDi50R JETDi60R	R3	51x26x10	10 12	3...60	90	73	1	•	•	•	•	•	•	•	•	1.5	•	•	With filter JETDF5	•
100 120	JETDi100R JETDi120R	R4 (quarter BRICK)	58x37x11	20 20	3...60	90	92	1	•	•	•	•	•	•	•	•	1.5	•	•	With filter JETDF10	•

Notes:

- - Available; 1 – for special request -60 °C...+130 °C

Replacement for units: JETND30...JETND120, JETD25...JETD100.

## JETDiR – DC/DC converters in reinforced metal cases with mounting holes and orthogonal/axial pins

Nominal output power, W	Units	Case	Dimensions, mm	Maximal output current, A	Output voltage, VDC	Typical efficiency, %	Power density, W/ln <sup>3</sup>	Number of outputs	Input <b>24</b> (20...30VDC)	Input <b>24W</b> (20...60VDC)	Input <b>27</b> (20...40VDC)	Input <b>27W</b> (15...50VDC), standard input	Input <b>48</b> (36...75VDC)	Operating temperature range of case -40...+110°C <sup>1</sup>	Isolation input/output, kVDC	Remote Onn/Off	Trimmer	External feedback	Parallel operating	Standard EMC EN55022	
																				Class B	Class A
200 250	JETDi200R JETDi250R	R5 (half BRICK)	61x59x12	40 40	5...60	92	95	1	•	•	•	•	•	•	=1.5	•	•	•	•	With filter JETDF20	•
400 600	JETDi400R JETDi600R	R6 (full BRICK)	117x61x13	33 50	12...60	92	107	1	•	•	•	•	•	•	=1.5	•	•	•	•	With filter	•

Notes:

- - Available; 1 – for special request -60 °C...+130 °C

Replacement for units: JETND250...JETND600, JETD250...JETD400

## JETDiR-LP – DC/DC converters in reinforced low-profile metal cases with mounting holes

Nominal output power, W	Units	Case	Dimensions, mm	Maximal output current, A	Output voltage, VDC	Typical efficiency, %	Power density, W/ln <sup>3</sup>	Number of outputs	Input 12 (10.2...15VDC)	Input 12W (10.2...30VDC)	Input 24 (20...30VDC)	Input 24W (20...60VDC)	Input 27 (20...40VDC)	Input 27W (15...50VDC), standard input	Input 48 (36...75VDC)	Operating temperature range of case -40...+110°C <sup>1</sup>	Isolation input/output, kVDC	Remote Onn/Off	Trimmer	Standard EMC EN55022	
																				Class B	Class A
20	JETDi20R-LP	R1-LP	32x21x8.5	4	3...60	90	57	1	•	•	•	•	•	•	•	•	1.5	•	•	With filter JETDF2.5	•
30	JETDi30R-LP	R2-LP	26x26x9	6	3...60	90	80	1	•	•	•	•	•	•	•	•	1.5	•	•	With filter JETDF2.5	•
60	JETDi60R-LP	R3-LP	51x26x8	12	3...60	90	92	1	•	•	•	•	•	•	•	•	1.5	•	•	With filter JETDF5	•
120	JETDi120R-LP	R4-LP (¼ BRICK-LP)	58x37x9	20	3...60	90	102	1	•	•	•	•	•	•	•	•	1.5	•	•	With filter JETDF10	•

Notes:

- - Available; 1 – for special request -60 °C...+130 °C

## TESND - DC/DC converters in metal cases with mounting

Nominal output power, W	Units	Case	Dimensions, mm	Maximal output current, A	Output voltage, VDC	Typical efficiency, %	Power density, W/In <sup>3</sup>	Number of outputs	Input 12 (10.2...15VDC)	Input 12W (10.2...30VDC)	Input 24 (20...30VDC)	Input 24W (20...60VDC)	Input 27 (20...40VDC)	Input 27W (15...50VDC), standard input	Input 48 (36...75VDC)	Operating temperature range of case -40...+110°C <sup>1</sup>	Isolation input/output, kVDC	Remote Onn/Off	Trimmer	Standard EMC EN55022	
																				Class B	Class A
10 15 20	TESND10 TESND15 TESND20	F1	30x20x10	2 3 4	3...60	88	54	1,2	•	•	•	•	•	•	•	•	1.5	•	•	With filter JETDF2.5	•
30 40	TESND30 TESND40	F2	40x30x11	6 8	3...60	88	49	1,2	•	•	•	•	•	•	•	•	1.5	•	•	With filter JETDF5	•
50 60	TESND50 TESND60	F3	48x33x11	10 12	3...60	90	49	1,2	•	•	•	•	•	•	•	•	1.5	•	•	With filter JETDF10	•
80 100 120	TESND80 TESND100 TESND120	F4	58x40x11	16 20 20	3...60	90	77	1	•	•	•	•	•	•	•	•	1.5	•	•	With filter JETDF20	•

Notes:

- - Available; 1 – for special request -60 °C...+130 °C

Replacement for units: TESND20...TESND80, TESD10...TESD60 (pin-to-pin)

## High-powered and compact TESND – DC/DC converters in metal cases with mounting flanges

Nominal output power, W	Units	Case	Dimensions, mm	Maximal output current, A	Output voltage, VDC	Typical efficiency, %`	Power density, W/In <sup>3</sup>	Number of outputs	Input 24 (20...30VDC)	Input 24W (20...60VDC)	Input 27 (20...40VDC)	Input 27W (15...50VDC), standard input	Input 48 (36...75VDC)	Operating temperature range of case -40...+110°C <sup>1</sup>	Isolation input/output, kVDC	Remote Onn/Off	Trimmer	External feedback	Parallel operating	Standard EMC EN55022	
																				Class B	Class A
200 250	TESND200 TESND250	F5	73x53x13	40 40	5...60	92	82	1	•	•	•	•	•	•	1.5	•	•	•	•	With filter JETDF20	•
500 600	TESND500 TESND600	F6	95x68x13	41,7 50	12...60	92	116	1	•	•	•	•	•	•	1.5	•	•	•	•	With filter	•
1000 1200	TESND1000 TESND1200	F7	110x84x15	53,3 80	15...60	92	141	1	•	•	•	•	•	•	1.5	•	•	•	•	With filter	•

Notes:

• - Available; 1 – for special request -60 °C...+130 °C

\* Replacement for units: TESND200...TESND600, TESD100...TESD500 (pin-to-pin)

## TESND-LP - DC/ DC converters in low-profile metal cases with mounting flanges

Nominal output power, W	Units	Case	Dimensions, mm	Maximal output current, A	Output voltage, VDC	Typical efficiency, %`	Power density, W/In <sup>3</sup>	Number of outputs	Input 12 (10.2...15VDC)	Input 12W (10.2...30VDC)	Input 24 (20...30VDC)	Input 24W (20...60VDC)	Input 27 (20...40VDC)	Input 27W (15...50VDC), standard input	Input 48 (36...75VDC)	Operating temperature range of case -40...+110°C <sup>1</sup>	Isolation input/output, kVDC	Remote Onn/Off	Trimmer	Standard EMC EN55022	
																				Class B	Class A
20	TESND20-LP	F1-LP	30x20x8.5	5	3...60	88	64	1,2	•	•	•	•	•	•	•	•	≈1.5	•	•	With filter JETDF2.5	•
40	TESND40-LP	F2-LP	40x30x9	8	3...60	88	61	1,2	•	•	•	•	•	•	•	•	≈1.5	•	•	With filter JETDF5	•
60	TESND60-LP	F3-LP	48x33x8	12	3...60	90	67	1,2	•	•	•	•	•	•	•	•	≈1.5	•	•	With filter JETDF10	•
120	TESND120-LP	F4-LP	58x40x9	24	3...60	90	93	1	•	•	•	•	•	•	•	•	≈1.5	•	•	With filter JETDF20	•

Notes:

- - Available; 1 – for special request -60 °C...+130 °C

## TESD - DC/ DC converters in low-profile metal cases with mounting flanges for current project low-cost replace for the popular units on Russia/CIS market

Nominal output power, W	Units	Case	Dimensions, mm	Maximal output current, A	Output voltage, VDC	Typical efficiency, %	Power density, W/In <sup>3</sup>	Number of outputs	Input 12 (10.2...15VDC)	Input 12W (10.2...30VDC)	Input 24 (20...30VDC)	Input 24W (20...60VDC)	Input 27 (20...40VDC)	Input 27W (15...50VDC), standard input	Input 48 (36...75VDC)	Operating temperature range of case -40...+110°C <sup>1</sup>	Isolation input/output, kVDC	Remote Onn/Off	Trimmer	External feedback	Parallel operating	Standard EMC EN55022	
																						Class B	Class A
10	TESD10	F1	30x20x10	2	5...60	88		1,2	•	•	•	•	•	•	•	•	≈1.5	•	•			With filter JETDF2.5	•
15	TESD15	F2	40x30x11	3	5...60	88		1,2	•	•	•	•	•	•	•	•	≈1.5	•	•			With filter JETDF5	•
30	TESD30	F3	48x33x11	6	5...60	90		1,2	•	•	•	•	•	•	•	•	≈1.5	•	•			With filter JETDF10	•
60	TESD60	F4	58x40x11	12	5...60	90		1.2	•	•	•	•	•	•	•	•	≈1.5	•	•			With filter JETDF10	•
10	TESD100	F5	73x53x13	16	5...60	92		1	•	•	•	•	•	•	•	•	≈1.5	•	•			With filter JETDF20	•
15	TESD200	F6	95x68x13	16	12...60	92		1	•	•	•	•	•	•	•	•	≈1.5	•	•	•	•	With filter JETDF20	•
30	TESD500	F7	110x84x15	40	12...60	92		1	•	•	•	•	•	•	•	•	≈1.5	•	•	•	•	With filter	•
60	TESD1000	F8	168x110x16	40	24...60	90		1	•	•	•	•	•	•	•	•	≈1.5	•	•	•	•	With filter	•

Notes:

- - Available; 1 – for special request -60 °C...+130 °C



## JETA – single-phase AC/DC power supplies with PFC (from 300 W) in metal cases with high power density

Nominal output power, W	Units	Case	Dimensions, mm	Maximal output current, A	Output voltage, VDC	Typical efficiency, %	Power density, W/In <sup>3</sup>	Power Factor Correction (PFC)	Number of outputs	Input voltage 115 (80...140) VAC	Input voltage 230 (176...242) VAC	Input voltage 230W (100...242) VAC	Operating temperature range of case -40...+85°C <sup>1</sup>	Isolation input/output, kVAC	Remote Onn/Off	Galvanic isolation between outputs	Trimmer	External feedback	Parallel operating	DIN-rail (option)	Additional options (see datasheet)	Standard EMC EN55022	
																						Class B	Class A
60	JETA60	A1	101x51x18.3	12	5...60	85	10	0,68	1,2	•	•	•	•	3.0		•				•		•	
120	JETA120	A2	111x61x21	24	5...60	85	13	0,67	1,2	•	•	•	•	3.0		•				•		•	
300	JETA300	A3	134x84x27.5	30	9...60	85	16	•	1,2		•	•	•	3.0	•	•	•			•		With filter JETAf5	•
700	JETA700	A4	175x93x28.6	50	12...60	88	25	•	1		•	•	•	3.0	•	•	•	•	•	•	•	With filter JETAf10	•
1200	JETA1200	A5	211x117x38.1	80	15...60	88	21	•	1		•	•	•	3.0	•	•	•	•	•	•	•	With filter JETAf10	•
2000	JETA2000	A6	250x140x39	100	15...60	88	25	•	1		•	•	•	3.0	•	•	•	•	•	•	•	With filter JETAf20	•

Notes:

- - Available; 1 – for special request -50 °C...+85 °C

Replacement for units: TESA50...TESA2000

## JETA-LP – single-phase AC/DC power supplies with PFC (from 250 W) in low-profile metal cases (LP) with high power density

Nominal output power, W	Units	Case	Dimensions, mm	Maximal output current, A	Output voltage, VDC	Typical efficiency, %	Power density, W/in <sup>3</sup>	Power Factor Correction (PFC)	Number of outputs	Input voltage 115 (80...140) VAC	Input voltage 230 (176...242) VAC	Input voltage 230W (100...242) VAC	Operating temperature range of case -40...+85°C <sup>1</sup>	Isolation input/output, kVAC	Remote Onn/Off	Galvanic isolation between outputs	Trimmer	External feedback	Parallel operating	DIN-rail (option)	Additional options (see datasheet)	Standard EMC EN55022		
																						Class B	Class A	
50	JETA50-LP	A1-LP	101x51x18	12	5...60	90	9	0,68	1,2	•	•	•	•	3.0		•					•		•	
100	JETA100-LP	A2-LP	111x61x19	24	5...60	90	13	0,67	1,2	•	•	•	•	3.0		•					•		•	
250	JETA250-LP	A3-LP	134x84x26	30	9...60	92	14	•	1,2		•	•	•	3.0	•	•	•				•		With filter JETAF5	•
600	JETA600-LP	A4-LP	175x93x28	50	12...60	92	22	•	1		•	•	•	3.0	•	•	•	•	•	•	•		With filter JETAF10	•
1000	JETA1000-LP	A5-LP	211x117x34	80	15...60	92	20	•	1		•	•	•	3.0	•		•	•	•		•		With filter JETAF10	•
1500	JETA1500-LP	A6-LP	250x140x36	100	15...60	92	20	•	1		•	•	•	3.0	•		•	•	•		•		With filter JETAF20	•

Notes:

- - Available; 1 – for special request -50 °C...+85 °C.

## JETAs – single-phase AC/DC power supplies in simple low-profile metal cases (without PFC)

Nominal output power, W	Units	Case	Dimensions, mm	Maximal output current, A	Output voltage, VDC	Typical efficiency, %	Power density, W/ln <sup>3</sup>	Number of outputs	Input voltage 115 (80...140) VAC	Input voltage 230 (176...242) VAC	Input voltage 230W (100...242) VAC	Operating temperature range of case -40...+85°C <sup>1</sup>	Isolation input/output, kVAC	Remote Onn/Off	Galvanic isolation between outputs	Trimmer	External feedback	Parallel operating	DIN-rail (option)	Additional options (see datasheet)	Standard EMC EN55022	
																					Class B	Class A
50	JETAs50	S1	100x43x18	10	5...60	89	11	1,2	•	•	•	•	3.0		•					•	With filter JETAF5	•
100	JETAs100	S2	115x56x21	20	5...60	89	13	1,2	•	•	•	•	3.0		•					•	With filter JETAF5	•
200	JETAs200	S3	115x80x28	40	5...60	90	13	1,2		•	•	•	3.0	•	•	•				•	With filter JETAF10	•
400	JETAs400	S4	175x94x29	33	12...60	90	15	1,2		•	•	•	3.0	•	•	•	•	•	•	•	With filter JETAF20	•

Notes:

- - Available

## JETNA-LP – three-phase AC/DC power supplies in low-profile metal cases with high power density and ultra-wide temperature range

Nominal output power, W	Units	Case	Dimensions, mm	Maximal output current, A	Output voltage, VDC	Typical efficiency, %`	Power density, W/ln <sup>3</sup>	Power Factor Correction (PFC)	Number of outputs	Input <b>400</b> (323...423VAC, 3 ph.)	Operating temperature range of case -40...+85°C <sup>1</sup>	Isolation input/output, kVAC	Remote Onn/Off	Trimmer	External feedback	Parallel operating	Additional output for fan	External trimmer Uout	Additional output AUX (see DS)	Power Good	Standard EMC EN55022		
																					Class B	Class A	
<b>1000</b>	<b>JETNA1000-LP</b>	A4-LP	175x93x <b>28</b>	60	12...60	91	<b>34</b>	0,92	1	•	•	3.0	•	•	•	•	•	•	•	•	•	With filter JETAF15	•
<b>2000</b>	<b>JETNA2000-LP</b>	A5-LP	211x117x <b>34</b>	100	15...60	91	<b>34</b>	0,92	1	•	•	3.0	•	•	•	•	•	•	•	•	•	With filter JETAF15	•
<b>3000</b>	<b>JETNA3000-LP</b>	A6-LP	250x140x <b>36</b>	125	24...60	92	<b>36</b>	0,92	1	•	•	3.0	•	•	•	•	•	•	•	•	•	With filter JETAF15	•
<b>5000</b>	<b>JETNA5000-LP</b>	A7-LP	300x170x <b>38</b>	200	24...60	92	<b>38</b>	0,92	1	•	•	3.0	•	•	•	•	•	•	•	•	•	With filter	•

Notes:

- - Available; 1 – for special request -50 °C...+85 °C or -60 °C...+85 °C (!)

Replacement for units: JETNA1000...JETNA5000

**TESAV – DC/DC converters in metal cases with flanges with built-in rectifier for creating AC/DC power supplies with ultra-wide temperature range or/and DC/DC converters with alternative inputs of double purpose (AC or DC or AC & DC)**

Nominal output power, W	Units	Case	Dimensions, mm	Maximal output current, A	Output voltage, VDC	Typical efficiency, %	Power density, W/in <sup>3</sup>	Number of outputs	Input <b>36</b> ( 25...53 VAC, 36...75 VDC)	Input <b>115</b> ( 80...140 VAC, 82...198 VDC)	Input <b>230</b> (176...242 VAC, 175...350 VDC)	BxOД, <b>150W</b> (=110...375B)	Operating temperature range of case -40...+110°C <sup>1</sup>	Isolation input/output, kVAC	Remote Onn/Off	Galvanic isolation between outputs	Trimmer	External feedback	Parallel operating	Standard EMC EN55022	
																				Class B	Class A
<b>50</b>	<b>TESAV50</b>	F5	73x53x13	10	5...60	86	<b>16</b>	1, 2	•	•	•	•	•	3	•	•	•			With filter	•
<b>100</b>	<b>TESAV100</b>	F6	95x68x13	17	12...60	89	<b>20</b>	1	•	•	•	•	•	3	•	•	•			With filter	•
<b>200</b>	<b>TESAV200</b>	F6	95x68x13	17	12...60	89	<b>39</b>	1	•	•	•	•	•	3	•	•	•	•	•	With filter	•
<b>500</b>	<b>TESAV500</b>	F7	110x84x15	34	12...60	91	<b>59</b>	1	•	•	•	•	•	3	•	•	•	•	•	With filter	•
<b>1000</b>	<b>TESAV1000</b>	F8	168x110x16	42	24...60	92	<b>56</b>	1	•	•	•	•	•	3	•	•	•	•	•	With filter	•

Notes:

• - Available; 1 – for special request -60 °C...+130 °C

Replacement for units: TESH50...TESH1000

## TESZ – DC/DC converters DC/DC Converters for railway applications (standard RIA12)

Nominal output power, W	Units	Case	Dimensions, mm	Maximal output current, A	Output voltage, VDC	Typical efficiency, %`	Power density, W/in <sup>3</sup>	Number of outputs	Input <b>72Z</b> ( 43...108 VDC)	Input <b>96Z</b> ( 57...144VDC)	Input <b>110Z</b> (66...165 VDC)	Рабочая температура корпуса -40...+110°C	Isolation input/output, kVAC	Remote Onn/Off	Trimmer	External feedback	Parallel operating	Standard EMC EN55022	
																		Class B	Class A
<b>100</b>	<b>TESZ100</b>	F6	95x68x13	9	12...60	85	<b>20</b>	1	•	•	•	•	1.5	•	•			With filter	•
<b>200</b>	<b>TESZ200</b>	F7	110x84x15	17	12...60	85	<b>23</b>	1	•	•	•	•	1.5	•	•	•	•	With filter	•
<b>500</b>	<b>TESZ500</b>	F8	168x110x16	34	12...60	85	<b>28</b>	1	•	•	•	•	1.5	•	•	•	•	With filter	•

Notes:

- - Available

## JETAF – AC filters

Nominal current, A	Type	Case	Dimensions without flanges, mm	Input voltage 115 (80...140 VAC)	Input voltage 230 (176...242 VAC)	Input voltage 230W (100...242 VAC)	Input voltage 400 (323...423 VAC), 3 ph.)	Operating temperature range of case -60...+125°C	Operating temperature range of case -50...+85°C	Isolation input/case, output/case, VAC	Insertion loss
1	JETAF1	AF1	58x40x10	•	•	•		•		1500	20...55 dB (see datasheet)
5	JETAF5	A1	101x51x20	•	•	•			•	1500	20...55 dB (see datasheet)
10	JETAF10	A2	111x61x24	•	•	•			•	1500	20...55 dB (see datasheet)
20	JETAF20	A3	134x84x28	•	•	•			•	1500	20...55 dB (see datasheet)
15	JETAF15-380	A4	134x84x28				•		•	1500	20...55 dB (see datasheet)

Notes:

- - Available; replacement for units: TEFA1...TEFA20

## JETDF – DC filters

Nominal current, A	Type	Case	Dimensions without flanges, mm	Input voltage <b>12W</b> (10.5...36 VDC)	Input voltage <b>24W</b> (18...72 VDC)	Operating temperature range of case -60...+125°C	Isolation input/case, output/case, VAC	Insertion loss
<b>2,5</b>	<b>JETDF2.5</b>	F1	30x20x10	•	•	•	500	15...55 dB (see datasheet)
<b>5</b>	<b>JETDF5</b>	F2	40x30x10	•	•	•	500	15...55 dB (see datasheet)
<b>10</b>	<b>JETDF10</b>	F3	48x33x10	•	•	•	500	15...55 dB (see datasheet)
<b>20</b>	<b>JETDF20</b>	F4	58x40x10	•	•	•	500	15...55 dB (see datasheet)

Notes:

- - Available; replacement for units: TEFD2,5...TEFD20