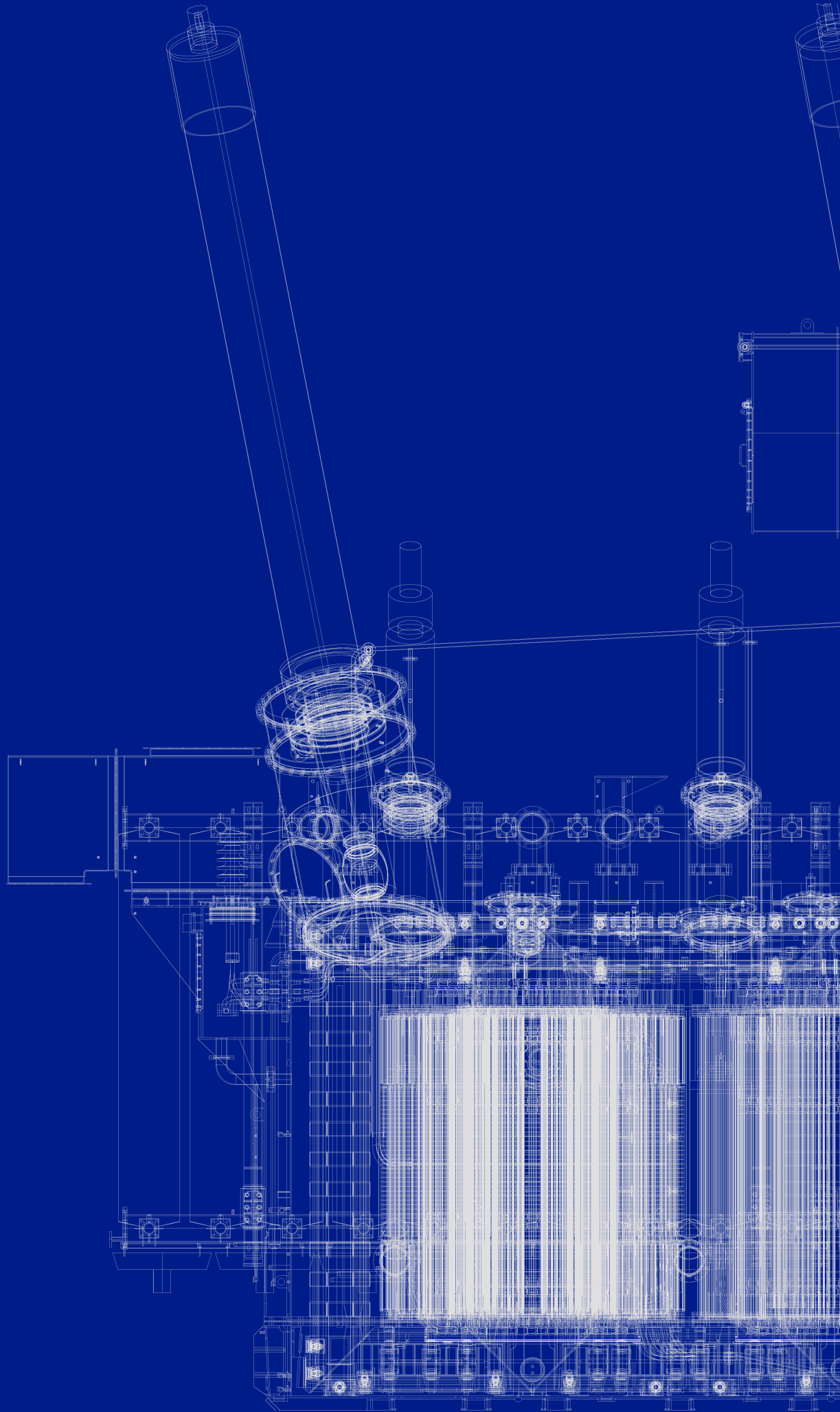
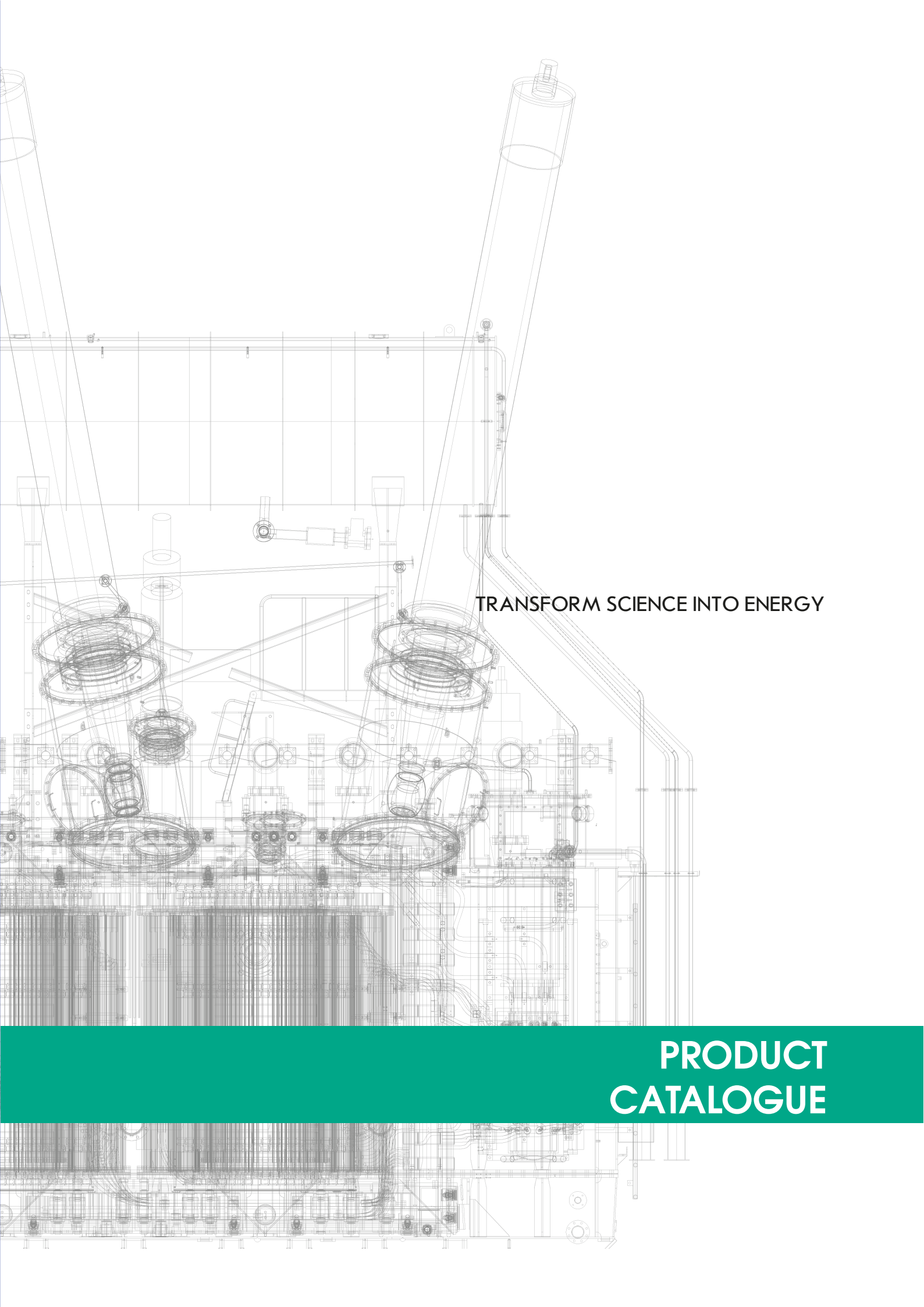


PRODUCT CATALOGUE





TRANSFORM SCIENCE INTO ENERGY

**PRODUCT
CATALOGUE**


FURNACE TRANSFORMER OF JSC "VIT"

Name of parameter	Type of transformer				
	ETDPK-4200/10	EODCN-16000/10	EODCNK-40000/150	ETCNK-160000/110	ETCNKD-160000/110
Rated power, kVA	2800	8500	21000	78000	90000
Rated voltage of sides, V					
HV	6000	10000	154000/3	110000	110000
LV	257	204	240	350	826
LV voltage adjustment range (on-load adjustment), V	NLTC 257–123,5	204–110	240–180	350–75	826–301
LV current measurement range, A	6300	41600–63000	115000–87533	130000	44600–36330
Number of regulating steps	12	27	25	335	34
Connecting diagram and vector group of windings	D-Y/D-0-11	1/1-0	1/1-0 Two active parts in one tank	Y/Y _n /D-0-11 Two active parts in one tank	Y/D-11 Two active parts in one tank
Connecting diagram and vector group of windings in three-phase group	—	D/111–0	Y _n /111–0	—	—
Weight, t					
full	13	22	75	172	160
transport	11.4	20	65	119	140
*No-load losses, kW	8.5	12	35	130	110
*Short-circuit losses, kW	45	80	250	800	530
Manufacturer	JSC "VIT"	PrJSC "ZTR"	PrJSC "ZTR"	PrJSC "ZTR"	OJSHC "ELEKTROZAVOD"
Customer	Kazakhstan, Rudny, Mine Mill Manufac-tur- er, DSP-3 furnace	Ukraine, Nikopol, Fer-roalloy factory	Ukraine, Nikopol, Fer-roalloy factory RPZ-63M2 furnace	Kazakhstan, Termitau, Calcium carbide manu- facture	Russia, Stary Oskol, Metallurgical factory, DSP-150 furnace

* Level of losses is coordinated with the Customer

CONVERTER TRANSFORMER OF JSC "VIT"

Name of parameter	Type of transformer			
	TMP-1000/6	TDP-3200/10	TDP-4200/6	TDP-4500/6
Rated power of power winding, kVA	1000	1674	2500	2745
Rated voltage, V of: power winding valveside winding	6000 180	6000 237	6000 230	6000 100
VW voltage adjustment range, V	—	237–139	230.2–160.9	NLTC 100–20.2
VW rated current, A	1634×2	2041×2	3135×2	4085×4
Number of regulating steps	—	4	3 without regulator	5
Connecting diagram and vector group of windings	Y/DY-11-0	Y/DD-5-1	D/YY-1-7	Y _{auto} /YYDD-1-7-0-6
Converter: rectified current, A rectified voltage, V	2000 243	2500×2 320–188	3135×2 310–217	4025×4 238–116
Weight, t full transport	5.75 5.75	10.8 9.1	8.8 7.3	13.9 9.1
* No-load losses, kW	4.0	4.1	3.5	6.6
* Short-circuit losses, kW	12.0	22.0	39	54
Manufacturer	JSC "VIT"			
Customer	Ukraine, Kryvyi Rih Metallurgical factory, DSP- 0.5	Russia, Nizhny Novgorod DSP – 1.5	Ukraine, Kryvyi Rih Metallurgical factory, DSP-3	Russia Kyshtym, Copper melting factory, Electrolyzer

* Level of losses is coordinated with the Customer




CONVERTER TRANSFORMER OF JSC "VIT"

Name of parameter	Type of transformer			
	TMP-8000/6	TCP-10000/6	TCNPU-10000/10	TDCNPU-12500/10
Rated power of power winding, kVA	4000	6038	4260	5270
Rated voltage, V of power winding valveside winding	6000 176	6000 320	10000 105.5	10500 78
VW voltage adjustment range, V	NLTC 176-86	NLTC 320-212	105.5-56.2	78-38
VW rated current, A	3286×4	2724×4	1589×6	2646×6
Number of regulating steps	4	4	19	18
Connecting diagram and vector group of windings	D/YYDD-7-1-6-0	D/YYDD-1-7-0-6	Y/YnrYnr -15-195 Y/YnrYnr -345-165 One active part with parallel reactors in one tank	Z/YnrYnr-0.5-6.5 Z/YnrYnr-11.5-5.5 One active part with parallel reactors in one tank
Converter: rectified current, A rectified voltage, V	4025×4 238-116	3336×4-5034×4 432-286	33000-53000 115-60	55000 75
Weight, t full transport	13.9 9.1	16.5 13.7	37 30	40 33
* No-load losses, kW	6.6	7.7	15	11.0
* Short-circuit losses, kW	54	81	125	120
Manufacturer	JSC "VIT"			
Customer	Ukraine, Kryvyi Rih Metallurgical factory, DSP-6	Ukraine, Dnipro, Dnipropress DSP-12	Ukraine, Zaporizhzhia, Aluminum factory, Crystalline silicon manufacture RPO-9KrVT	Russia, Krasnoyarsk, Aluminum factory. Electrolyzer series

* Level of losses is coordinated with the Customer

CONVERTER TRANSFORMER OF JSC "VIT"

Name of parameter	Type of transformer		
	TDCPFUD-25000/10	TDCNPU-32000/10	TCNPUD-63000/10
Rated power of power winding, kVA	6430×2	11000	2×22140
Rated voltage, V of power winding valveside winding	10500 140	10000 137.5	10000 142
VW voltage adjustment range, V	140–70	137.5–60	142–71
VW rated current, A	2706×4×2	4715×4	103920
Number of regulating steps	4	19	14
Connecting diagram and vector group of windings	Z/Y/УнрУнр–0.25–6.25 Z/Y/УнрУнр–11.25–5.25 Z/Y/УнрУнр–11.75–5.75 Z/Y/УнрУнр–10.75–4.75 Five active parts in one tank	У/УнрУнр–7.5–187.5 У/УнрУнр–22.5–202.5 У/УнрУнр–352.5–172.5 У/УнрУнр–337.5–157.5 One active part with paralleling reactors in one tank	УД/У0–У6–У1–У7 Two active parts with paralleling reactors in one tank
Converter: rectified current, A rectified voltage, B	75000 150	65120–92000 160–70	180000 150–75
Weight, t full transport	61.9 50.9	75 68	97 83
* No-load losses, kW	22.1	48	28.5–30
* Short-circuit losses, kW	166	230	460
Manufacturer	JSC "VIT"	PrJSC "ZTR"	JSC "VIT"
Customer	Russia Sayanogorsk, Aluminum factory, Electrolyzer series	Russia, Bratsk, Aluminum factory, Crystalline silicon manufacture	Ukraine, Zaporizhzhia, Research and development Preobravovatel-complex, Co. Ltd. for JSC "Ukrgrafit" Mobile rectifier unit

* Level of losses is coordinated with the Customer



