



POWER SUPPLIES EQUIPMENT AND SYSTEMS



UNINTERRUPTIBLE
.....
DC/DC CONVERTERS
.....
DC/AC INVERTERS
.....
CUSTOM PRODUCTS



UNINTERRUPTABLE DC OUTPUT POWER SUPPLIES (UPS)

ECS-100

MODELS	Current	Battery			Charging current selection			
		Nominal	Floating	Cut off	I1	I2	I3	I4
5173	7.35 A	12V	13.6V	10V	1.0A	1.2 A	2.4 A	4.8 A
5177	3.68A	24V	27.2V	20V	0.5A	0.6A	1.2 A	2.4 A
5179	1.84 A	48V	54.4V	40V	0.22A	0.3A	0.6 A	1.2 A

ECS-200

MODELS	Current	Nominal	Floating	Cut off	I1	I2	I3	I4
5183	14.7A	12V	13.6V	10V	2.0A	2.4A	4.8A	9.6A
5187	8.3A	24V	27.2V	20V	1.0A	1.2A	2.4A	4.8A
5189	4.2A	48V	54.4V	40V	0.44A	0.6A	1.2A	2.4A

EDT / EPS

MODEL p/n	Out-1	Out-2	Out-3	Total power	Peak power	Battery	Input isolation	Housing
EDT-150-12V-0715	12V / 16A 25Apk	48V / 2.2A 5.2Apk	48V / 0.83A 0.83Apk	150W	250W	12V	3000 Vrms	Aluminium case
EPS-120-48V-0719	48V / 3A 4.6Apk	-	-	120W	180W	48V	10000 Vrms	Plastic case
EPS-200-48V-0716	48V / 5.2A 10.3Apk	-	-	200W	400W	48V	10000 Vrms	Plastic case

SINGLE OUTPUT DC/DC CONVERTERS

CCS-60 Transportation and Railway

MODELS	12 Vin 9.5V ... 15V 9.5V ... 15V ⁽¹⁾	24 Vin 14.4V ... 30V 16.8V ... 30V ⁽¹⁾	36 Vin 21.6V ... 45V 25.2V ... 45V ⁽¹⁾	48 Vin 28.8V ... 60V 33.6V ... 60V ⁽¹⁾	72 Vin 43.2V ... 90V 50.4V ... 90V ⁽¹⁾	110 Vin 66V ... 144V 77V ... 144V ⁽¹⁾
5Vout	CCS-60-6551 50W 81%	CCS-60-6555 50W 82%	CCS-60-6571 50W 83%	CCS-60-6559 50W 83%	CCS-60-6563 50W 83%	CCS-60-6567 50W 83%
12Vout	CCS-60-6552 60W 85%	CCS-60-6556 70W 86%	CCS-60-6572 70W 87%	CCS-60-6560 70W 87%	CCS-60-6564 70W 87%	CCS-60-6568 70W 87%
24Vout	CCS-60-6553 60W 86%	CCS-60-6557 70W 87%	CCS-60-6573 70W 87%	CCS-60-6561 70W 88%	CCS-60-6565 70W 88%	CCS-60-6569 70W 88%
48Vout	CCS-60-6554 60W 85%	CCS-60-6558 70W 86%	CCS-60-6574 70W 87%	CCS-60-6562 70W 88%	CCS-60-6566 70W 88%	CCS-60-6570 70W 88%

CRS-60

MODELS	12Vin 9,5V ... 15V	24Vin 18V ... 30V	48Vin 36V ... 60V	72Vin 50,4V ... 90V	110Vin 77V ... 144V
5Vout	CRS-60-6731 50W 77%	CRS-60-6735 50W 78%	CRS-60-6739 50W 79%	CRS-60-6743 50W 79%	CRS-60-6747 50W 80%
12Vout	CRS-60-6732 60W 78%	CRS-60-6736 60W 83%	CRS-60-6740 60W 84%	CRS-60-6744 60W 84%	CRS-60-6748 60W 85%
24Vout	CRS-60-6733 60W 80%	CRS-60-6737 60W 84%	CRS-60-6741 60W 85%	CRS-60-6745 60W 85%	CRS-60-6749 60W 85%
48Vout	CRS-60-6734 60W 82%	CRS-60-6738 60W 85%	CRS-60-6742 60W 85%	CRS-60-6746 60W 85%	CRS-60-6750 60W 85%

CRS-120

MODELS	12Vin 9V ... 15V	24Vin 18V ... 30V	48Vin 36V ... 72V	72Vin 50,4V ... 90V	110Vin 77V ... 144V	220Vin 165V ... 275V
5Vout	CRS-120-6761 100W 77%	CRS-120-6765 100W 78%	CRS-120-6769 100W 79%	CRS-120-6773 100W 79%	CRS-120-6777 100W 80%	CRS-120-6781 100W 80%
12Vout	CRS-120-6762 100W 78%	CRS-120-6766 120W 83%	CRS-120-6770 120W 84%	CRS-120-6774 120W 84%	CRS-120-6778 120W 85%	CRS-120-6782 120W 85%
24Vout	CRS-120-6763 120W 80%	CRS-120-6767 120W 84%	CRS-120-6771 140W 86%	CRS-120-6775 140W 86%	CRS-120-6779 140W 87%	CRS-120-6783 140W 87%
48Vout	CRS-120-6764 120W 82%	CRS-120-6768 120W 85%	CRS-120-6772 140W 88%	CRS-120-6776 140W 88%	CRS-120-6780 140W 89%	CRS-120-6784 140W 89%

CRS-240

MODELS	12Vin 9V ... 15V	24Vin 18V ... 30V	48Vin 36V ... 72V	72Vin 50,4V ... 90V	110Vin 77V ... 144V	220Vin 165V ... 275V
5Vout	CRS-240-6351 180W 79%	CRS-240-6355 180W 80%	CRS-240-6359 180W 80%	CRS-240-6363 180W 81%	CRS-240-6367 180W 81%	CRS-240-6371 180W 81%
12Vout	CRS-240-6352 180W 80%	CRS-240-6356 240W 83%	CRS-240-6360 240W 84%	CRS-240-6364 240W 88%	CRS-240-6368 240W 86%	CRS-240-6372 240W 86%
24Vout	CRS-240-6353 200W 82%	CRS-240-6357 240W 87%	CRS-240-6361 280W 88%	CRS-240-6365 280W 90%	CRS-240-6369 280W 91%	CRS-240-6373 280W 91%
48Vout	CRS-240-6354 200W 82%	CRS-240-6358 240W 88%	CRS-240-6362 280W 89%	CRS-240-6366 280W 90%	CRS-240-6370 280W 92%	CRS-240-6374 280W 92%

CRS-500 Industrial and Railway versions available

MODELS	24Vin 14,4V ... 30V	36Vin 21,6V ... 45V	48Vin 28,8V ... 60V	72Vin 43,2V ... 90V	110Vin 66V ... 144V
24Vout	CRS-500-6455 500W 88%	CRS-500-6467 500W 88%	CRS-500-6458 500W 91%	CRS-500-6461 500W 91%	CRS-500-6464 500W 91%
48Vout	CRS-500-6456 500W 89%	CRS-500-6468 500W 89%	CRS-500-6459 500W 91%	CRS-500-6462 500W 91%	CRS-500-6465 500W 92%

CRS-1000 Industrial and Railway versions available

MODELS	24Vin 14,4V ... 30V 16,8V ... 30V	36Vin 21,6V ... 45V 25,2V ... 45V	48Vin 28,8V ... 60V 33,6V ... 60V	72Vin 43,2V ... 90V 50,4V ... 90V	110Vin 66V ... 144V 77V ... 144V
24Vout	CRS-1000-6475 1000W 88%	CRS-1000-6487 1000W 89%	CRS-1000-6478 1000W 91%	CRS-1000-6481 1000W 91%	CRS-1000-6484 1000W 91%
48Vout	CRS-1000-6476 1000W 89%	CRS-1000-6488 1000W 90%	CRS-1000-6479 1000W 91%	CRS-1000-6482 1000W 92%	CRS-1000-6485 1000W 92%

CTS-60 Transportation and Railway

MODELS	24Vin 14,4V ... 30V	36Vin 21,6V ... 45V	48Vin 28,8V ... 60V	72Vin 43,2V ... 90V	110Vin 66V ... 144V
5Vout	CTS-60-6835 50W 78%	CTS-60-6851 50W 78%	CTS-60-6839 50W 79%	CTS-60-6843 50W 79%	CTS-60-6847 50W 80%
12Vout	CTS-60-6836 60W 83%	CTS-60-6852 60W 83%	CTS-60-6840 60W 84%	CTS-60-6844 60W 84%	CTS-60-6848 60W 85%
24Vout	CTS-60-6837 60W 84%	CTS-60-6853 60W 84%	CTS-60-6841 60W 85%	CTS-60-6845 60W 85%	CTS-60-6849 60W 85%
48Vout	CTS-60-6838 60W 85%	CTS-60-6854 60W 85%	CTS-60-6842 60W 85%	CTS-60-6846 60W 85%	CTS-60-6850 60W 85%

CTS-120 Transportation and Railway

MODELS	24Vin 14,4V ... 30V	36Vin 21,6V ... 45V	48Vin 28,8V ... 60V	72Vin 43,2V ... 90V	110Vin 66V ... 144V
5Vout	CTS-120-6865 100W 78%	CTS-120-6885 100W 79%	CTS-120-6869 100W 79%	CTS-120-6873 100W 79%	CTS-120-6877 100W 80%
12Vout	CTS-120-6866 120W 83%	CTS-120-6886 120W 84%	CTS-120-6870 120W 84%	CTS-120-6874 120W 84%	CTS-120-6878 120W 85%
24Vout	CTS-120-6867 120W 84%	CTS-120-6887 140W 86%	CTS-120-6871 140W 86%	CTS-120-6875 140W 86%	CTS-120-6879 140W 87%
48Vout	CTS-120-6868 120W 85%	CTS-120-6888 140W 88%	CTS-120-6872 140W 88%	CTS-120-6876 140W 88%	CTS-120-6880 140W 89%

CTS-240 Transportation and Railway

MODELS	24Vin 14,4V ... 30V	36Vin 21,6V ... 45V	48Vin 28,8V ... 60V	72Vin 43,2V ... 90V	110Vin 66V ... 144V
5Vout	CTS-240-6655 180W 80%	CTS-240-6672 180W 80%	CTS-240-6659 180W 80%	CTS-240-6663 180W 81%	CTS-240-6667 180W 81%
12Vout	CTS-240-6656 240W 83%	CTS-240-6673 240W 83%	CTS-240-6660 240W 84%	CTS-240-6664 240W 88%	CTS-240-6668 240W 86%
24Vout	CTS-240-6657 240W 87%	CTS-240-6674 280W 87%	CTS-240-6661 280W 88%	CTS-240-6665 280W 90%	CTS-240-6669 280W 91%
48Vout	CTS-240-6658 240W 88%	CTS-240-6675 280W 88%	CTS-240-6662 280W 89%	CTS-240-6671 280W 90%	CTS-240-6670 280W 92%

CVS-280

MODEL	Nominal Input Voltage	Nominal Output Voltage	Output power	Nominal Output Voltage	Efficiency
CVS-280-6953	600 / 750 V	24V	280W	400W	88%
CVS-280-6954	600 / 750 V	36V	280W	400W	88%
CVS-280-6956	600 / 750 V	72V	280W	400W	89%
CVS-280-6957	600 / 750 V	110V	280W	400W	89%

REDUNDANT DC/DC CONVERTERS

CKR-2000

MODELS	B - Sub-rack			A - Modules	
		Total power	Redun. N+1	48Vin (36V...60V)	110Vin (77V...144V)
12Vout	NP-9176	1920W	1680W	NP-9179 240W	NP-9182 240W
24Vout	NP-9177	2240W	1960W	NP-9180 280W	NP-9183 280W
48Vout	NP-9178	2240W	1960W	NP-9181 280W	NP-9184 280W

DC/AC INVERTERS

OCS-260 Industrial and Railway versions available (Single-Phase)

MODEL	Input V	Input V range	Output V	Active power	Apparent power	Output peak current (10ms)	Efficiency	No load input current
7031	12Vdc	9.5 ... 15V	230Vac	180W	260VA	4Apk	86 %	< 0.50A
7033	24Vdc	16.8 ... 30V	230Vac	200W	260VA	4Apk	87 %	< 0.26A
7034	36Vdc	25.2 ... 45V	230Vac	220W	260VA	4Apk	88 %	< 0.21A
7035	48Vdc	33.6 ... 60V	230Vac	220W	260VA	4Apk	89 %	< 0.15A
7036	72Vdc	50.4 ... 90V	230Vac	220W	260VA	4Apk	89 %	< 0.11A
7037	110Vdc	77 ... 138V	230Vac	220W	260VA	4Apk	90 %	< 0.08A
7041	12Vdc	9.5 ... 15V	120Vac	180W	260VA	8Apk	85 %	< 0.50A
7043	24Vdc	16.8 ... 30V	120Vac	200W	260VA	8Apk	87 %	< 0.26A
7044	36Vdc	25.2 ... 45V	120Vac	220W	260VA	8Apk	88 %	< 0.21A
7045	48Vdc	33.6 ... 60V	120Vac	220W	260VA	8Apk	88 %	< 0.15A
7046	72Vdc	50.4 ... 90V	120Vac	220W	260VA	8Apk	88 %	< 0.11A
7047	110Vdc	77 ... 138V	120Vac	220W	260VA	8Apk	89 %	< 0.08A

ODS-750 Industrial and Railway versions available (Single-Phase)

MODELS	Input V	Input V range	Output V	Active Power	Apparent Power	lopk 10ms	Efficiency	No load input current
7271	12 Vdc	9.5 ... 15V	230 Vac	450 W	750 VA	10 A	85 %	0.80 A
7273	24 Vdc	16.8 ... 30V	230 Vac	750 W	750 VA	10 A	86 %	0.46 A
7274	36 Vdc	25.2 ... 45V	230 Vac	750 W	750 VA	10 A	87 %	0.36 A
7275	48 Vdc	33.6 ... 60V	230 Vac	750 W	750 VA	10 A	88 %	0.27 A
7276	72 Vdc	50.4 ... 90V	230 Vac	750 W	750 VA	10 A	88 %	0.17 A
7277	110 Vdc	77 ... 138V	230 Vac	750 W	750 VA	10 A	89 %	0.12 A
7281	12 Vdc	9.5 ... 15V	120 Vac	450 W	750 VA	16 A	84 %	0.80 A
7283	24 Vdc	16.8 ... 30V	120 Vac	750 W	750 VA	16 A	86 %	0.46 A
7284	36 Vdc	25.2 ... 45V	120 Vac	750 W	750 VA	16 A	87 %	0.36 A
7285	48 Vdc	33.6 ... 60V	120 Vac	750 W	750 VA	16 A	87 %	0.27 A
7286	72 Vdc	50.4 ... 90V	120 Vac	750 W	750 VA	16 A	87 %	0.17 A
7287	110 Vdc	77 ... 138V	120 Vac	750 W	750 VA	16 A	88 %	0.12 A

ODS-1500 Industrial and Railway versions available (Single-Phase)

MODELS	Input V.	Input V. range	Output Voltage	Output Power	Output Current	Output peak current		Efficiency	No load input current
						5s	10ms (lopk)		
7111	12 Vdc	10 ... 15V	230 Vac	1200 W	5.2 A	6.8 A	16 A	87 %	< 0.8 A
7113	24 Vdc	16.8 ... 30V	230 Vac	1500 W	6.5 A	10 A	16 A	88 %	< 0.4 A
7114	36 Vdc	25.2 ... 45V	230 Vac	1500 W	6.5 A	10 A	16 A	89 %	< 0.3 A
7115	48 Vdc	33.6 ... 60V	230 Vac	1500 W	6.5 A	10 A	16 A	90 %	< 0.2 A
7116	72 Vdc	50.4 ... 90V	230 Vac	1500 W	6.5 A	10 A	16 A	90 %	< 0.15 A
7117	110 Vdc	77 ... 138V	230 Vac	1500 W	6.5 A	10 A	16 A	91 %	< 0.1 A
7121	12 Vdc	10 ... 15V	120 Vac	1500 W	6.5 A	13 A	30 A	86 %	< 0.8 A
7123	24 Vdc	16.8 ... 30V	120 Vac	1500 W	6.5 A	20 A	30 A	88 %	< 0.4 A
7124	36 Vdc	25.2 ... 45V	120 Vac	1500 W	6.5 A	20 A	30 A	88 %	< 0.3 A
7125	48 Vdc	33.6 ... 60V	120 Vac	1500 W	6.5 A	20 A	30 A	89 %	< 0.2 A
7126	72 Vdc	50.4 ... 90V	120 Vac	1500 W	6.5 A	20 A	30 A	89 %	< 0.15 A
7127	110 Vdc	77 ... 138V	120 Vac	1500 W	6.5 A	20 A	30 A	90 %	< 0.1 A

ODS-3000 Industrial and Railway versions available (Single-Phase)

MODELS	Input V.	Input V. range	Output Voltage	Output Power	Output Current	Output peak current		Efficiency	No load input current
						5s	10ms (lopk)		
7153	24 Vdc	16.8 ... 30V	230 Vac	2400 W	10.4 A	15 A	32 A	89 %	< 0.7 A
7154	36 Vdc	25.2 ... 45V	230 Vac	3000 W	13.0 A	20 A	32 A	90 %	< 0.5 A
7155	48 Vdc	33.6 ... 60V	230 Vac	3000 W	13.0 A	20 A	32 A	91 %	< 0.4 A
7156	72 Vdc	50.4 ... 90V	230 Vac	3000 W	13.0 A	20 A	32 A	91 %	< 0.3 A
7157	110 Vdc	77 ... 138V	230 Vac	3000 W	13.0 A	20 A	32 A	92 %	< 0.2 A
7163	24 Vdc	16.8 ... 30V	120 Vac	2400 W	10.4 A	28 A	32 A	88 %	< 0.7 A
7164	36 Vdc	25.2 ... 45V	120 Vac	3000 W	13.0 A	32 A	52 A	89 %	< 0.5 A
7165	48 Vdc	33.6 ... 60V	120 Vac	3000 W	13.0 A	32 A	52 A	89 %	< 0.4 A
7166	72 Vdc	50.4 ... 90V	120 Vac	3000 W	13.0 A	32 A	52 A	90 %	< 0.3 A
7167	110 Vdc	77 ... 138V	120 Vac	3000 W	13.0 A	32 A	52 A	91 %	< 0.2 A

ODX-1300 Industrial and Railway (3-Phase)

MODELS	Input	Input V. range	Max input current		Output Von	Output Power	Output Current	Output peak current		Efficiency	Size
			No load	Full load				10s (Arms)	10ms (lopk)		
7442	24 Vdc	16.8...30V	1.05 A	66.0 A	150...250 Vac	1.1kW 1.3kVA	3.00 A	4.5 A	6.4 A	89 %	2
7445	72 Vdc	50...90V	0.33 A	24.4 A	150...250 Vac	1.1kW 1.3kVA	3.00 A	4.5 A	6.4 A	90 %	1
7447	110 Vdc	77...140V	0.20 A	16.0 A	150...250 Vac	1.1kW 1.3kVA	3.00 A	4.5 A	6.4 A	90 %	1
7452	24 Vdc	16.8...30V	1.28 A	66.0 A	200...400 Vac	1.1kW 1.3kVA	1.88 A	2.8 A	4.0 A	89 %	2
7455	72 Vdc	50...90V	0.39 A	24.4 A	200...400 Vac	1.1kW 1.3kVA	1.88 A	2.8 A	4.0 A	90 %	1
7457	110 Vdc	77 ...140V	0.25 A	16.0 A	200...400 Vac	1.1kW 1.3kVA	1.88 A	2.8 A	4.0 A	91 %	1

ODX-3000 Industrial and Railway versions available (3-Phase)

MODELS	Input V.	Input V. range	Output Voltage	Output Power	Output Current	Output peak current		Efficiency	No load input current
						5s	10ms (lopk)		
7403	24 Vdc	16.8 ... 30V	400 Vac	2400 W	3.46 A	5.25 A	11 A	89 %	< 1.58 A
7404	36 Vdc	25.2 ... 45V	400 Vac	3000 W	4.33 A	6.6 A	11 A	90 %	< 1.05 A
7405	48 Vdc	33.6 ... 60V	400 Vac	3000 W	4.33 A	6.6 A	11 A	91 %	< 0.79 A
7406	72 Vdc	50.4 ... 90V	400 Vac	3000 W	4.33 A	6.6 A	11 A	91 %	< 0.52 A
7407	110 Vdc	77 ... 138V	400 Vac	3000 W	4.33 A	6.6 A	11 A	92 %	< 0.34 A
7413	24 Vdc	16.8 ... 30V	230 Vac	2400 W	6.0 A	9.0 A	19 A	89 %	< 1.58 A

ODX-4500 Industrial and Railway versions available (3-Phase)

MODELS	Input	Input V. range	Max input current		Output Von	Max. Output Power	Output Current	Output peak current		Efficiency
			No load	Full load				Arms 5s	10ms (lopk)	
7425	72 Vdc	50.4...90V	0.67 A	88 A	50...400 Vac	4000W / 4500VA	6.50 A	9.5 A	15 A	91 %
7426	100 Vdc	70...125V	0.49 A	62 A	50...400 Vac	4000W / 4500VA	6.50 A	9.5 A	15 A	92 %
7427	110 Vdc	77...138V	0.44 A	57 A	50...400 Vac	4000W / 4500VA	6.50 A	6.6 A	15 A	92 %

ODX-6000 (3-Phase)

MODELS	Input	Input V. range	Output Voltage	Active Power	Output Current	Output peak current		Efficiency	No load input current
						Arms 5s	10ms (lopk)		
7503	24 Vdc	16.8 ... 30V	400 Vac	4500 W	6.52 A	8.7 A	21 A	90 %	< 1.8 A
7505	48 Vdc	33.6 ... 60 V	400 Vac	6000 W	8.66 A	11.5 A	21 A	93 %	< 0.9 A
7506	72 Vdc	50.4 ... 90 V	400 Vac	6000 W	8.66 A	11.5 A	21 A	93 %	< 0.6 A
7507	110 Vdc	77 ... 138 V	400 Vac	6000 W	8.66 A	11.5 A	21 A	93 %	< 0.4 A

DC / AC INVERTERS



OCS-260



ODS-750



ODS-1500



ODS-3000



ODX-1300



ODX-3000 / ODX-4500



ODX-6000



CUSTOM PRODUCTS: AC/DC, DC/DC, DC/AC, BATTERY CHARGERS

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UNINTERRUPTIBLE DC OUTPUT POWER SUPPLIES (UPS)



ECS-100



ECS-200

UNINTERRUPTIBLE DC OUTPUT POWER SUPPLIES (UPS)



EPS-120 / EPS-200



EDT-150

REDUNDANT DC/DC CONVERTERS



CKR-2000

SINGLE OUTPUT DC/DC CONVERTERS



CCS-60



CRS-60 / CTS-60



CRS-120



CRS-240



CRS-500



CRS-1000



CTS-240



CVS-280



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