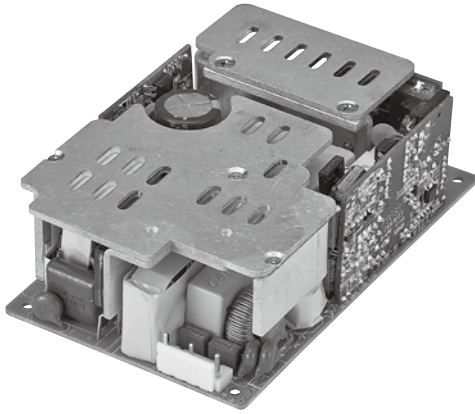


Single Output / Dual Output /
Triple Output / Quad Output



Features

- Active PFC Function
- High Efficiency
- CEC Compliance
- RoHS Compliance
- Over Voltage Protective Installation
- Over Current Protective Installation
- Short Circuit Protective Installation
- 100% Burn-In
- 100% Hi-Pot Tested
- MTBF > 50,000 hours

EP V WWW XX Y Z

- V:** The number of output group
WWW: Total Power
XX : Main Power voltage
Y: Secondary voltage coding
Z: Serial number

Electrical Specifications

MODEL NO.		OUTPUT POWER (W)	OUTPUT NO.	OUTPUT VOLTAGE (Vdc)	OUTPUT LOAD (A)	LOAD REGULATION	RIPPLE & NOISE
Single output	EP1WWWWXYZ	100~200W	Main Power	5~56V	2.59~20A	± 3% Max.	2% Max.
Dual output	EP2WWWWXYZ	100~180W	Main Power/DC-DC	5~56V	2.48~18.0A	± 3% Max.	2% Max.
			Stand-by or -12V	5Vsb or~12V	0~2A or 0~0.5A	± 3 or 10% Max.	2% Max.
Triple output	EP3WWWWXYZ	100~175W	Main Power	10~56V	2.63~13.3A	± 3% Max.	2% Max.
			Stand-by Power	5Vsb	0~2A	± 3% Max.	2% Max.
			DC-DC or -12V	5/12V or~12V	0~5A or 0~0.5A	± 3 or 10% Max.	2% Max.
Quad output	EP4WWWWXYZ	100~175W	Main Power	10~24V	3.0~11.16A	± 3% Max.	2% Max.
			DC - DC Power	5,12V	0~5A or 0~0.5A	± 3% Max.	2% Max.
			-12V Power	-12V	0~0.5A	± 10% Max.	2% Max.
			Stand-by Power	5Vsb	0~2A	± 3% Max.	2% Max.

NOTE:

- 1 : Ripple & Noise is measured by using 20MHz bandwidth limited oscilloscope and terminated each output with a 0.1uF ceramic capacitor & parallel with 47uF aluminum capacitor at full load and nominal line.
 2 : Line regulation is defined by changing ±10% of input voltage from nominal line at rated load.
 3 : Max. Power (W) ≥ Vo x Io

Electrical Specifications

INPUT

- Input Range 90-264Vac
- Input Current ≤2.5A
- Inrush Current ≤120A peak @230VAC, cold start@25°C
- Efficiency ≤85% depends on models.
Meet CEC Level V.
- Turn On Time ≤3S

OUTPUT

- Over Voltage Protection Latch off
- Short Circuit Protection Latch off
- Over Current Protection Latch off

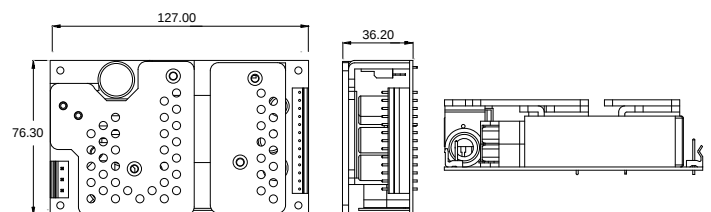
ENVIRONMENTAL

- Operating Temperature 0 to 50°C
- Storage Temperature -20 to 85°C
- Storage Humidity 5% to 95 %

SAFETY

- UL/CUL, TUV, CB, CE, FCC

Mechanical Specification



- Mechanical Size: 127.0 x 76.3 x 36.2 (mm)
- AC Input Connector CON1 : JST/B5P-VH Series or equivalent
- DC Output Connector CON2 : JST/B13P-VH Series or equivalent
- DC Output Connector CON3 : CKM/20010203-6 or equivalent
- Pin Assignment:

CON1 :

P1	P3	P5
L	N	F.G

CON2 :

P1	P2-5	P6-9	P10-11	P12-13
Vout3	GND	Vout1	GND	Vout4

CON3 :

P1	P2	P3-4	P5-6
P.G/P.F	PS/ON	Vout2	GND

- Weight: 450g

EP1200 Series

Open Frame

• 100~200Watts Max.

E P V WWW XX Y Z

E	P	V	WWW	XX	Y	Z
BUSINESS	TYPE	NUMBER OF OUTPUT GROUP	TOTAL POWER VOLTAGE	MAIN - POWER VOLTAGE	0~9~A~Z	0~9~A~Z
EDAC	ITE Open Frame	1~4	100~200	05=5V 24=24V 12=12V 36=36V 18=18V 48=48V 19=19V 56=56V	0=NA A=Stand by B=-12V C=Standby+(-12V) D=PCB 160x76.3mm	0=NA A=5V/5A B=12V/5A

MODEL NAME	MAIN- POWER			STAND BY- POWER			-12V POWER			DC TO DC POWER			TOTAL POWER
	Vo1(V)	Io1(I)	Wo1(W)	Vo2(V)	Io2(I)	Wo2(W)	Vo3(V)	Io3(I)	Wo3(W)	Vo4(V)	Io4(I)	Wo4(W)	
EP11000500	5	20.00	100										100
EP11100900	9	12.22	110										110
EP11350900	9	15.00	135										135
EP11251000	10	12.50	125										125
EP11501000	10	15.00	150										150
EP11251100	11	11.36	125										125
EP11651100	11	15.00	165										165
EP11501200	12	12.50	150										150
EP115012E0	12	12.50	150										150
EP11801200	12	15.00	180										180
EP11251500	15	8.33	125										125
EP11501500	15	10.00	150										150
EP11251600	16	7.81	125										125
EP11501600	16	9.37	150										150
EP11501700	17	8.23	150										150
EP11751700	17	10.00	175										175
EP11351800	18	7.50	135										135
EP11501800	18	8.33	150										150
EP11801800	18	10.00	180										180
EP11501900	19	7.89	150										150
EP11801900	19	9.47	180										180
EP12001900	19	10.52	200										200
EP11352200	22	6.13	135										135
EP11502200	22	6.81	150										150
EP11802200	22	8.18	180										180
EP11402300	23	6.08	140										140
EP11502300	23	6.52	150										150
EP11802300	23	7.82	180										180
EP11502400	24	6.25	150										150
EP11802400	24	7.50	180										180
EP12002400	24	8.33	200										200
EP11403400	34	4.11	140										140
EP11503400	34	4.41	150										150
EP11803400	34	5.29	180										180
EP11403500	35	4.00	140										140
EP11503500	35	4.28	150										150
EP11953500	35	5.57	180										195
EP11503600	36	4.16	150										150
EP11803600	36	5.00	180										180
EP12003600	36	5.56	200										200
EP11404600	46	3.04	140										140
EP11504600	46	3.26	150										150
EP11804600	46	3.91	180										180
EP11404700	47	2.97	140										140
EP11504700	47	3.19	150										150
EP11804700	47	3.83	180										180
EP11504800	48	3.12	150										150
EP11804800	48	3.75	180										180
EP12004800	48	4.16	200										200
EP11405400	54	2.59	140										140
EP11505400	54	2.77	150										150
EP11805400	54	3.33	180										180
EP11455500	55	2.63	145										145
EP11505500	55	2.72	150										150
EP11805500	55	3.27	180										180
EP11505600	56	2.67	150										150
EP11805600	56	3.21	180										180
EP12005600	56	3.57	200										200

Single output

	MODEL NAME	MAIN- POWER			STAND BY- POWER			-12V POWER			DC TO DC POWER			TOTAL POWER
		Vo1(V)	Io1(I)	Wo1(W)	Vo2(V)	Io2(I)	Wo2(W)	Vo3(V)	Io3(I)	Wo3(W)	Vo4(V)	Io4(I)	Wo4(W)	
Dual output	EP210005A0	5	18.00	90	5	2	10							100
	EP211509A0	9	11.67	105	5	2	10							115
	EP213809A0	9	14.17	128	5	2	10							138
	EP212610A0	10	11.60	116	5	2	10							126
	EP215210A0	10	14.17	142	5	2	10							152
	EP213811A0	11	11.63	128	5	2	10							138
	EP216611A0	11	14.17	156	5	2	10							166
	EP215012A0	12	11.67	140	5	2	10							150
	EP218012A0	12	14.16	170	5	2	10							180
	EP212015A0	15	7.33	110	5	2	10							120
	EP214415A0	15	8.95	134	5	2	10							144
	EP212716A0	16	7.31	117	5	2	10							127
	EP215316A0	16	8.95	143	5	2	10							153
	EP213517A0	17	7.35	125	5	2	10							135
	EP216317A0	17	8.95	152	5	2	10							162
	EP214218A0	18	7.33	132	5	2	10							142
	EP217118A0	18	8.95	161	5	2	10							171
	EP215019A0	19	7.36	140	5	2	10							150
	EP218019A0	19	8.94	170	5	2	10							180
	EP213822A0	22	5.81	128	5	2	10							138
	EP216622A0	22	7.08	156	5	2	10							166
	EP214423A0	23	5.82	134	5	2	10							144
	EP217323A0	23	7.08	163	5	2	10							173
	EP215024A0	24	5.83	140	5	2	10							150
	EP218024A0	24	7.08	170	5	2	10							180
	EP214234A0	34	3.88	132	5	2	10							142
	EP217034A0	34	4.72	160	5	2	10							170
	EP214535A0	35	3.85	135	5	2	10							145
	EP217535A0	35	4.72	165	5	2	10							175
	EP215036A0	36	3.88	140	5	2	10							150
	EP218036A0	36	4.72	170	5	2	10							180
	EP214346A0	46	2.89	133	5	2	10							143
	EP217346A0	46	3.54	163	5	2	10							173
	EP214547A0	47	2.87	135	5	2	10							145
	EP217647A0	47	3.54	166	5	2	10							176
	EP215048A0	48	2.91	140	5	2	10							150
	EP218048A0	48	3.54	170	5	2	10							180
	EP214454A0	54	2.48	134	5	2	10							144
	EP217454A0	54	3.04	164	5	2	10							174
	EP214755A0	55	2.49	137	5	2	10							147
	EP217755A0	55	3.03	167	5	2	10							177
	EP215056A0	56	2.50	140	5	2	10							150
	EP218056A0	56	3.03	170	5	2	10							180
	EP215012B0	12	12.00	144				-12	0.5	6				150
	EP218012B0	12	14.50	174				-12	0.5	6				180
	EP215019B0	19	7.57	144				-12	0.5	6				150
	EP218019B0	19	9.15	174				-12	0.5	6				180
	EP215024B0	24	6.00	144				-12	0.5	6				150
	EP218024B0	24	7.25	174				-12	0.5	6				180
	EP218024DB	24	6.00	144							12	3	36	180
Triple output	EP215036B0	36	4.00	144				-12	0.5	6				150
	EP218036B0	36	4.83	174				-12	0.5	6				180
	EP215048B0	48	3.00	144				-12	0.5	6				150
	EP218048B0	48	3.62	174				-12	0.5	6				180
	EP215056B0	56	2.57	144				-12	0.5	6				150
	EP218056B0	56	3.10	174				-12	0.5	6				180
	EP313010AA	10	9.50	95	5	2	10				5	5	25	130
	EP315010AA	10	11.50	115	5	2	10				5	5	25	150
	EP314011AA	11	9.54	105	5	2	10				5	5	25	140
	EP315011AA	11	10.45	115	5	2	10				5	5	25	150
	EP315012AA	12	9.58	115	5	2	10				5	5	25	150
	EP317512AA	12	11.66	140	5	2	10				5	5	25	175
	EP312215AA	15	5.80	87	5	2	10				5	5	25	122
	EP314615AA	15	7.40	111	5	2	10				5	5	25	146
	EP312816AA	16	5.81	93	5	2	10				5	5	25	128
	EP315316AA	16	7.37	118	5	2	10				5	5	25	153
	EP313517AA	17	5.88	100	5	2	10				5	5	25	135

MODEL NAME	MAIN- POWER			STAND BY- POWER			-12V POWER			DC TO DC POWER			TOTAL POWER
	Vo1(V)	Io1(I)	Wo1(W)	Vo2(V)	Io2(I)	Wo2(W)	Vo3(V)	Io3(I)	Wo3(W)	Vo4(V)	Io4(I)	Wo4(W)	
EP316017AA	17	7.37	125	5	2	10				5	5	25	160
EP314218AA	18	5.94	107	5	2	10				5	5	25	142
EP316818AA	18	7.38	133	5	2	10				5	5	25	168
EP314518AB	18	4.16	75	5	2	10				12	5	60	145
EP316818AB	18	5.44	98	5	2	10				12	5	60	168
EP315019AA	19	6.05	115	5	2	10				5	5	25	150
EP317519AA	19	7.36	140	5	2	10				5	5	25	175
EP315019AB	19	4.21	80	5	2	10				12	5	60	150
EP317519AB	19	5.52	105	5	2	10				12	5	60	175
EP314022AA	22	4.77	105	5	2	10				5	5	25	140
EP315022AA	22	5.22	115	5	2	10				5	5	25	150
EP314122AB	22	3.22	71	5	2	10				12	5	60	141
EP316522AB	22	4.31	95	5	2	10				12	5	60	165
EP314523AA	23	4.78	110	5	2	10				5	5	25	145
EP316823AA	23	5.78	133	5	2	10				5	5	25	168
EP314523AB	23	3.26	75	5	2	10				12	5	60	145
EP317023AB	23	4.34	100	5	2	10				12	5	60	170
EP315024AA	24	4.79	115	5	2	10				5	5	25	150
EP317524AA	24	5.83	140	5	2	10				5	5	25	175
EP315024AB	24	3.33	80	5	2	10				12	5	60	150
EP317524AB	24	4.37	105	5	2	10				12	5	60	175
EP312510C0	10	10.90	109	5	2	10	-12	0.5	6				125
EP314910C0	10	13.30	133	5	2	10	-12	0.5	6				149
EP313511C0	11	10.81	119	5	2	10	-12	0.5	6				135
EP316211C0	11	13.27	146	5	2	10	-12	0.5	6				162
EP315012C0	12	11.16	134	5	2	10	-12	0.5	6				150
EP317512C0	12	13.25	159	5	2	10	-12	0.5	6				175
EP312015C0	15	6.93	104	5	2	10	-12	0.5	6				120
EP314215C0	15	8.40	126	5	2	10	-12	0.5	6				142
EP312516C0	16	6.81	109	5	2	10	-12	0.5	6				125
EP315016C0	16	8.37	134	5	2	10	-12	0.5	6				150
EP313517C0	17	7.00	119	5	2	10	-12	0.5	6				135
EP315817C0	17	8.37	142	5	2	10	-12	0.5	6				158
EP314218C0	18	7.00	126	5	2	10	-12	0.5	6				142
EP316718C0	18	8.38	151	5	2	10	-12	0.5	6				167
EP315019C0	19	7.05	134	5	2	10	-12	0.5	6				150
EP317519C0	19	8.36	159	5	2	10	-12	0.5	6				175
EP313522C0	22	5.40	119	5	2	10	-12	0.5	6				135
EP316222C0	22	6.63	146	5	2	10	-12	0.5	6				162
EP314023C0	23	5.39	124	5	2	10	-12	0.5	6				140
EP316823C0	23	6.63	152	5	2	10	-12	0.5	6				168
EP315024C0	24	5.58	134	5	2	10	-12	0.5	6				150
EP317524C0	24	6.62	159	5	2	10	-12	0.5	6				175
EP314034C0	34	3.64	124	5	2	10	-12	0.5	6				140
EP315034C0	34	3.94	134	5	2	10	-12	0.5	6				150
EP314035C0	35	3.54	124	5	2	10	-12	0.5	6				140
EP315035C0	35	3.82	134	5	2	10	-12	0.5	6				150
EP315036C0	36	3.72	134	5	2	10	-12	0.5	6				150
EP317536C0	36	4.41	159	5	2	10	-12	0.5	6				175
EP314046C0	46	2.69	124	5	2	10	-12	0.5	6				140
EP315046C0	46	2.91	134	5	2	10	-12	0.5	6				150
EP314047C0	47	2.63	124	5	2	10	-12	0.5	6				140
EP315047C0	47	2.85	134	5	2	10	-12	0.5	6				150
EP315048C0	48	2.79	134	5	2	10	-12	0.5	6				150
EP317548C0	48	3.54	159	5	2	10	-12	0.5	6				175
EP314054C0	54	3.82	124	5	2	10	-12	0.5	6				140
EP316954C0	54	3.72	153	5	2	10	-12	0.5	6				169
EP314555C0	55	4.41	129	5	2	10	-12	0.5	6				145
EP317255C0	55	2.69	156	5	2	10	-12	0.5	6				172
EP315056C0	56	2.91	134	5	2	10	-12	0.5	6				150
EP317556C0	56	2.63	159	5	2	10	-12	0.5	6				175

Triple
output

MODEL NAME		MAIN- POWER			STAND BY- POWER			-12V POWER			DC TO DC POWER			TOTAL POWER
		Vo1(V)	Io1(I)	Wo1(W)	Vo2(V)	Io2(I)	Wo2(W)	Vo3(V)	Io3(I)	Wo3(W)	Vo4(V)	Io4(I)	Wo4(W)	
Quad output	EP413010CA	10	8.90	89	5	2	10	-12	0.5	6	5	5	25	130
	EP415010CA	10	10.90	109	5	2	10	-12	0.5	6	5	5	25	150
	EP414011CA	11	9.00	99	5	2	10	-12	0.5	6	5	5	25	140
	EP415011CA	11	9.90	109	5	2	10	-12	0.5	6	5	5	25	150
	EP415012CA	12	9.08	109	5	2	10	-12	0.5	6	5	5	25	150
	EP417512CA	12	11.60	134	5	2	10	-12	0.5	6	5	5	25	175
	EP412715CA	15	5.73	86	5	2	10	-12	0.5	6	5	5	25	127
	EP414615CA	15	7.00	105	5	2	10	-12	0.5	6	5	5	25	146
	EP413216CA	16	5.68	91	5	2	10	-12	0.5	6	5	5	25	132
	EP415316CA	16	7.00	112	5	2	10	-12	0.5	6	5	5	25	153
	EP415017CA	17	6.41	109	5	2	10	-12	0.5	6	5	5	25	150
	EP416017CA	17	7.00	119	5	2	10	-12	0.5	6	5	5	25	160
	EP414418CA	18	5.72	103	5	2	10	-12	0.5	6	5	5	25	144
	EP416718CA	18	7.00	126	5	2	10	-12	0.5	6	5	5	25	167
	EP414618CA	18	3.88	70	5	2	10	-12	0.5	6	12	5	60	146
	EP416818CA	18	5.11	92	5	2	10	-12	0.5	6	12	5	60	168
	EP415019CA	19	5.73	109	5	2	10	-12	0.5	6	5	5	25	150
	EP417519CA	19	7.05	134	5	2	10	-12	0.5	6	5	5	25	175
	EP415019CB	19	4.36	74	5	2	10	-12	0.5	6	12	5	60	150
	EP417519CB	19	5.21	99	5	2	10	-12	0.5	6	12	5	60	175
	EP414022CA	22	4.50	99	5	2	10	-12	0.5	6	5	5	25	140
	EP416222CA	22	5.50	121	5	2	10	-12	0.5	6	5	5	25	162
	EP414322CA	22	3.04	67	5	2	10	-12	0.5	6	12	5	60	143
	EP416622CA	22	4.09	90	5	2	10	-12	0.5	6	12	5	60	166
	EP414523CA	23	4.52	104	5	2	10	-12	0.5	6	5	5	25	145
	EP416823CA	23	5.52	127	5	2	10	-12	0.5	6	5	5	25	168
	EP414523CA	23	3.00	69	5	2	10	-12	0.5	6	12	5	60	145
	EP417123CA	23	4.13	95	5	2	10	-12	0.5	6	12	5	60	171
	EP415024CA	24	4.54	109	5	2	10	-12	0.5	6	5	5	25	150
	EP417524CA	24	5.58	134	5	2	10	-12	0.5	6	5	5	25	175
	EP415024CB	24	3.08	74	5	2	10	-12	0.5	6	12	5	60	150
	EP417524CB	24	4.12	99	5	2	10	-12	0.5	6	12	5	60	175