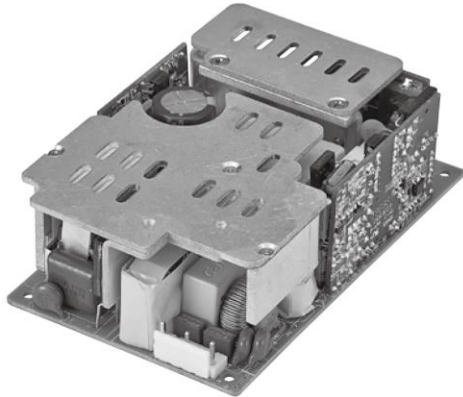




100~120W Open Frame type Quad output power supply < EP1200

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	EP1WWWXXYZ	100~200W	Main Power	5~56V	2.59~20A	± 3% Max. 2% Max.
Dual output	EP2WWWXXYZ	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	EP3WWWXXYZ	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	EP4WWWXXYZ	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

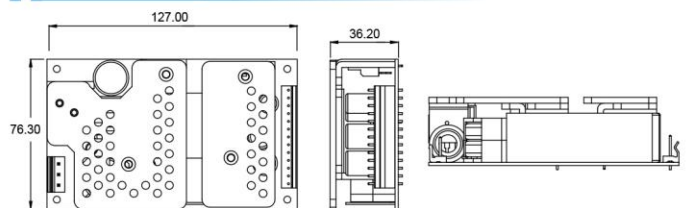
ENVIRONMENTAL

- 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



E-Star Power Development Co., Ltd. (E-STAR)
 1F., No.40, Juren Ln., Sec. 2, Sanmin Rd., Banciao Dist., New Taipei City
 22069, Taiwan (R.O.C.)
 Phone : 886-2-2957 5580 Fax : 886-2-2957 7473

100~120W Open Frame type Quad output power supply < EP1200

E P V WWW XX Y Z



P	V	WWW	XX	Y	Z
TYPE	NUMBER OF OUTPUT GROUP	TOTAL POWER VOLTAGE	MAIN - POWER VOLTAGE	0~9~A~Z	0~9~A~Z
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
Single output 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



E-Star Power Development Co., Ltd. (E-STAR)

1F., No.40, Juren Ln., Sec. 2, Sanmin Rd., Banciao Dist., New Taipei City 22069, Taiwan (R.O.C.)

Phone : 886-2-2957 5580 Fax : 886-2-2957 7473

100~120W Open Frame type Quad output power supply < EP1200

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)	
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
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



E-Star Power Development Co., Ltd. (E-STAR)
 1F., No.40, Juren Ln., Sec. 2, Sanmin Rd., Banciao Dist., New Taipei City
 22069, Taiwan (R.O.C.)
 Phone : 886-2-2957 5580 Fax : 886-2-2957 7473

100~120W Open Frame type Quad output power supply < EP1200

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



E-Star Power Development Co., Ltd. (E-STAR)
 1F., No.40, Juren Ln., Sec. 2, Sanmin Rd., Banciao Dist., New Taipei City
 22069, Taiwan (R.O.C.)
 Phone : 886-2-2957 5580 Fax : 886-2-2957 7473

100~120W Open Frame type Quad output power supply < EP1200

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)	
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

Quad output