



# TRANSFORMER & CONSTANT CURRENT DRIVER

Approved By Customer	Designer	Checker	Approval

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Version : 1.1

EDISON OPTO CORPORATION

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# TRANSFORMER & CONSTANT CURRENT DRIVER LIST

Part Number		Features					Applications						
Driving Type	Part No.	Safety Input Voltage(V)	Input Voltage(V)	Output Voltage/Current	Output Power	Typical Power	Edixeon®				EdiPower®		MR16
							1W Qt'y	3W Qt'y	5W Qt'y	KLC8 Qt'y	10W Qt'y	20W Qt'y	5W MR16 Qt'y
CV*2	EP-A60V-12	113 ~ 127	108 ~ 132	12V AC	10~60W	50W							1~2 *1
CV	EP-B60V-12	226 ~ 254	216 ~ 264	12V AC	10~60W	50W							1~2 *1
CC*3	EP-C03C-350	100 ~ 240	94 ~ 254	12V MAX. / 350mA	4.2W MAX.	3W	1~3			1~3			
CC	EP-C03C-700	100 ~ 240	94 ~ 254	6V MAX. / 700mA	4.2W MAX.	3W		1		1			
CC	EP-C05C-350	100 ~ 240	94 ~ 254	24V MAX / 350mA	8.4W MAX.	5W	1~6			1~6			
CC	EP-C05C-700	100 ~ 240	94 ~ 254	12V MAX. / 700mA	8.4W MAX.	5W		1~3	1	1~3			
CC	EP-A10C-350	120	113 ~ 127	4~40V / 350mA	14W MAX.	10W	1~10			1~10			
CC	EP-A10C-700	120	113 ~ 127	4~20 / 700mA	14W MAX.	10W		1~5	1~2	1~5			
CC	EP-B10C-350	230 ~ 240	216 ~ 254	4~40 / 350mA	14W MAX.	10W	1~10			1~10			
CC	EP-B10C-700	230 ~ 240	216 ~ 254	4~20 / 700mA	14W MAX.	10W		1~5	1~2	1~5			
CC	EP-A20C-700	120	113 ~ 127	4~40 / 700mA	24W MAX.	20W		1~10	1~4	1~10			
CC	EP-A20C-1050	120	113 ~ 127	4~32 / 1050mA	24W MAX.	20W				1~6			
CC	EP-B20C-700	230 ~ 240	216 ~ 254	4~40 / 700mA	24W MAX.	20W		1~10	1~4	1~10			
CC	EP-B20C-1050	230 ~ 240	216 ~ 254	4~32 / 1050mA	24W MAX.	20W				1~6			

\*1 Parallel circuit

\*2 CV (Constant Voltage)

\*3 CC (Constant Current)

# SPECIFICATION

ELECTRONICAL SPECIFICATION		EP-A60V-12
01	INPUT RATED VOLTAGE	112 ~ 127 VAC
02	INPUT RATED FREQUENCY	50 ~ 60 Hz
03	INPUT CURRENT RANGE	0.5 A
04	RATED / MR16 LOAD	60W
05	POWER LOAD IN LOAS RANGE	≤3W
06	POWER FACTOR IN LOAD RANGE	Cos $\theta$ 0.98
07	SURRENDING TEMPERATURE RANGED TO (Ta)	(RATED LOAD) -20°C TO +40°C
08	MAXING HOUSING TEMPERATURE (Tc)	(RATED LOAD) 75°C
09	OVERLOAD AND SHORT CIRCUIT PROTECTION	NO
10	OVERHEATING PROTECTION	NO.
11	UL FILE NUMBER	E159528
12	TESTED ACCORDING TO	UL 1012
13	PROTECTION TYPE	CLASS I
14	CONTROL MARK	UL/CUL
15	DIMENSION	79(L)*47(W)*33.5(H)mm
16	WEIGHT	75g
17	CONNECTED WIRES	PVC 1015#18 110mm *7A*10A BK/WH



# SPECIFICATION

ELECTRONICAL SPECIFICATION		EP-A60V-12
01	INPUT RATED VOLTAGE	225 ~ 254 VAC
02	INPUT RATED FREQUENCY	50 ~ 60 Hz
03	INPUT CURRENT RANGE	0.25 A
04	RATED / MR16 LOAD	60W
05	POWER LOAD IN LOAS RANGE	≤3W
06	POWER FACTOR IN LOAD RANGE	Cos $\theta$ 0.98
07	SURRENDING TEMPERATURE RANGED TO (Ta)	(RATED LOAD) -20°C TO +50°C
08	MAXING HOUSING TEMPERATURE (Tc)	(RATED LOAD) 80°C
09	OVERLOAD AND SHORT CIRCUIT PROTECTION	YES
10	OVERHEATING PROTECTION	NO.
11	STANDARDS APPLIED : SAFETY std	EN 61 046:94+A1:96
12	STANDARDS APPLIED : EMC std	EN 55015:96, EN61000-3-2:95 EN 61000-3-3:95, EN 61547:95
13	TESTED ACCORDING TO	199843135
14	PROTECTION TYPE	CLASS II ; SELV ; IP20
15	CONTROL MARK	CE/CB/EMC
16	DIMENSION	95.5(L)*42(W)*20(H)mm
17	WEIGHT	100g
18	CONNECTED WIRES	NO



# SPECIFICATION

ELECTRONICAL SPECIFICATION		EP-C03C-350	EP-C03C-700
01	PRIMARY VOLTAGE	100 ~ 240 VAC	100 ~ 240 VAC
02	INPUT FREQUENCY	50 ~ 60 Hz	50 ~ 60 Hz
03	SECONDARY OUTPUT VOLTAGE	12V MAX.	6 V MAX.
04	CONSTANT CURRENT	350 mA	700 mA
05	OUTPUT POWER ((VA)W)	4.2W MAX.	4.2W MAX.
06	CIRCUIT SHORT PROTECTION	YES	YES
07	OVERLOAD PROTECTION	YES	YES
08	OVERVOLTAGE PROTECTION	YES	YES
09	THERMAL PROTECTION	YES	YES
10	AMBIENT TEMPERATURE	-10°C ~ +50°C	-10°C ~ +50°C
11	STORAGE TEMPERATURE	-40°C ~ +85°C	-40°C ~ +85°C
12	MAX. Tc.	75°C	75°C
13	SAFTY APPROVAL	UL/cUL/TUV/CE	UL/cUL/TUV/CE
14	DIMENSION	43(L)*42(W)*23(H)mm	43(L)*42(W)*23(H)mm
15	WEIGHT	55g	55g
16	CONNECTED WIRES	NO	NO



# SPECIFICATION

ELECTRONICAL SPECIFICATION		EP-C05C-350	EP-C05C-700
01	PRIMARY VOLTAGE	100 ~ 240 VAC	100 ~ 240 VAC
02	INPUT FREQUENCY	50 ~ 60 Hz	50 ~ 60 Hz
03	SECONDARY OUTPUT VOLTAGE	24 V MAX.	12 V MAX.
04	CONSTANT CURRENT	350 mA	700 mA
05	OUTPUT POWER ((VA)W)	8.4W MAX.	8.4W MAX.
06	CIRCUIT SHORT PROTECTION	YES	YES
07	OVERLOAD PROTECTION	YES	YES
08	OVERVOLTAGE PROTECTION	YES	YES
09	THERMAL PROTECTION	YES	YES
10	AMBIENT TEMPERATURE	-10°C ~ +50°C	-10°C ~ +50°C
11	STORAGE TEMPERATURE	-40°C ~ +85°C	-40°C ~ +85°C
12	MAX. Tc.	75°C	75°C
13	SAFTY APPROVAL	UL/cUL/TUV/CE	UL/cUL/TUV/CE
14	DIMENSION	66(L)*35(W)*27(H)mm	66(L)*35(W)*27(H)mm
15	WEIGHT	80g	80g
16	CONNECTED WIRES	I/P 1015/24# 18CM O/P 1015/24# 12CM	



# SPECIFICATION

ELECTRONICAL SPECIFICATION		EP-A10C-350	EP-A10C-700
01	PRIMARY VOLTAGE	120 VAC	120 VAC
02	INPUT FREQUENCY	60 Hz	60 Hz
03	SECONDARY OUTPUT VOLTAGE	4 ~ 40V	4 ~ 20V
04	CONSTANT CURRENT	350 mA	700 mA
05	OUTPUT POWER ((VA)W)	14W MAX.	14W MAX.
06	CIRCUIT SHORT PROTECTION	YES	YES
07	OVERLOAD PROTECTION	YES	YES
08	OVERVOLTAGE PROTECTION	YES	YES
09	THERMAL PROTECTION	YES	YES
10	AMBIENT TEMPERATURE	-10°C ~ +50°C	-10°C ~ +50°C
11	STORAGE TEMPERATURE	-40°C ~ +85°C	-40°C ~ +85°C
12	MAX. Tc	90°C	90°C
13	SAFTY APPROVAL	UL/cUL	UL/cUL
14	DIMENSION	103(L)*38(W)*27(H)m m	103(L)*38(W)*27(H)m m
15	WEIGHT	100g	100g
16	CONNECTED WIRES	I/P 1015/24# 18CM O/P 1015/24# 12CM	



# SPECIFICATION

ELECTRONICAL SPECIFICATION		EP-B10C-350	EP-B10C-700
01	PRIMARY VOLTAGE	230 ~ 240 VAC	230 ~ 240 VAC
02	INPUT FREQUENCY	50 Hz	50 Hz
03	SECONDARY OUTPUT VOLTAGE	4 ~ 40V	4 ~ 20V
04	CONSTANT CURRENT	350 mA	700 mA
05	OUTPUT POWER ((VA)W)	14W MAX.	14W MAX.
06	CIRCUIT SHORT PROTECTION	YES	YES
07	OVERLOAD PROTECTION	YES	YES
08	OVERVOLTAGE PROTECTION	YES	YES
09	THERMAL PROTECTION	YES	YES
10	AMBIENT TEMPERATURE	-10°C ~ +50°C	-10°C ~ +50°C
11	STORAGE TEMPERATURE	-40°C ~ +85°C	-40°C ~ +85°C
12	MAX. Tc	75°C	75°C
13	SAFTY APPROVAL	TUV/CE	TUV/CE
14	DIMENSION	135(L)*39(W)*31(H)m m	135(L)*39(W)*31(H)m m
15	WEIGHT	115g	115g
16	CONNECTED WIRES	NO	NO



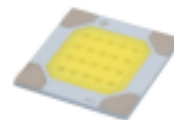
# SPECIFICATION

ELECTRONICAL SPECIFICATION		EP-A20C-700	EP-A20C-1050
01	PRIMARY VOLTAGE	120 VAC	120 VAC
02	INPUT FREQUENCY	60 Hz	50 Hz
03	SECONDARY OUTPUT VOLTAGE	4 ~ 40V	4 ~ 32V
04	CONSTANT CURRENT	700 mA	1050 mA
05	OUTPUT POWER ((VA)W)	24W MAX.	24W MAX.
06	CIRCUIT SHORT PROTECTION	YES	YES
07	OVERLOAD PROTECTION	YES	YES
08	OVERVOLTAGE PROTECTION	YES	YES
09	THERMAL PROTECTION	YES	YES
10	AMBIENT TEMPERATURE	-10°C ~ +50°C	-10°C ~ +50°C
11	STORAGE TEMPERATURE	-40°C ~ +85°C	-40°C ~ +85°C
12	MAX. Tc	90°C	90°C
13	SAFTY APPROVAL	UL/cUL PENDING	UL/cUL PENDING
14	DIMENSION	137(L)*42(W)*29(H)m m	137(L)*42(W)*29(H)m m
15	WEIGHT	130g	130g
16	CONNECTED WIRES	I/P 1015/24# 18CM O/P 1015/24# 12CM	



# SPECIFICATION

ELECTRONICAL SPECIFICATION		EP-B20C-700	EP-B20C-1050
01	PRIMARY VOLTAGE	230 ~ 240 VAC	230 ~ 240 VAC
02	INPUT FREQUENCY	50 Hz	50 Hz
03	SECONDARY OUTPUT VOLTAGE	4 ~ 40V	4 ~ 32V
04	CONSTANT CURRENT	700 mA	1050 mA
05	OUTPUT POWER ((VA)W)	24W MAX.	24W MAX.
06	CIRCUIT SHORT PROTECTION	YES	YES
07	OVERLOAD PROTECTION	YES	YES
08	OVERVOLTAGE PROTECTION	YES	YES
09	THERMAL PROTECTION	YES	YES
10	AMBIENT TEMPERATURE	-10°C ~ +50°C	-10°C ~ +50°C
11	STORAGE TEMPERATURE	-40°C ~ +85°C	-40°C ~ +85°C
12	MAX. Tc	75°C	75°C
13	SAFTY APPROVAL	TUV PENDING/CE	TUV PENDING/CE
14	DIMENSION	170(L)*42(W)*33(H)mm	170(L)*42(W)*33(H)mm
15	WEIGHT	150g	150g
16	CONNECTED WIRES	NO	NO



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**TRANSFORMER & CONSTANT CURRENT DRIVER ADVANCED TEST**

<b>PART NUMBER</b>	<b>OPERATING TEST</b>
<b>EP-A60V-12</b> <b>EP-B60V-12</b>	OVER 10000 TIMES ON-OFF TEST PER 30 SECONDS. BURN IN TEST AT 50°C
<b>EP-C03C-350</b> <b>EP-C03C-700</b> <b>EP-C05C-350</b> <b>EP-C05C-700</b> <b>EP-A10C-350</b> <b>EP-A10C-700</b> <b>EP-B10C-350</b> <b>EP-B10C-700</b> <b>EP-A20C-700</b> <b>EP-A20C-1050</b> <b>EP-B20C-700</b> <b>EP-B20C-1050</b>	3 HOURS BURN IN TEST WITH LED ONE HOUR ON-OFF TEST