

INVERTER & POWER

► Inverter & POWER(Q74A)

- L.I.P.S : LCD INVERTER POWER SYSTEM(FLF1742-20A)

► Specification

- Operate 4 CCFL Lamps.
- Current Feedback Control
- Input Voltage : DC 12V.
- When any lamp doesn't operate, the panel is under protection status.
Protection status means that circuit protect the other lamp.
- PWM Control.
- Remote Power On/Off control
- High Efficiency

► Electrical Characteristics

Description	Min	Typ	Max	Sign	Remark
Input Voltage	11.0	12.0	13.0	Vin	
Input Current	1.5	1.7	1.9	A	12Vdc
Output Current	5.0	6.0	7.0	mArms	1ccfl current
Lamp Frequency	40	47	55	kHz	
ON/OFF Control	Normal Operation			ON	Vin=12V ON/OFF=5V
	Shunt-down(Lamp off)			OFF	Vin=12V ON/OFF=0V
Kick-Off Voltage	MORE THAN 1100			Vrms	Kick-Off

► Pin Connection

- INPUT CONNECTOR CON1

Pin NO.	Symbol	Description
1,2	VIN 1	Input Voltage : 12V
3,4,7	GND	GND
5,6	VIN 2	Inopt Voltage : 5V
8	ON/OFF	Power System Return
9	NC	NC

- OUTPUT CONNECTOR CN1,2,3,4

Pin NO.	Symbol	Description
1	HV1,2,3,4	HI VOLTAGE TERMINAL
2	LV1,2,3,4	LOV VOLTAGE TERMINAL

► Inverter & POWER BD Part List(FLF1742-20A)

NO.	Ref.	PART TYPE	1st. Vendor	2nd. Vendor	Q,ty
1	LF101	LFL002A	동흥	GET	1
2	PC101	LTV-817B-M,TCET1103	LITON	Vishay	1
3	BD101	KBP206G	TSC		1
4	D104,105	SB560	VISHAY-GS	DIODES	2
5	D103	MBR10H150CT	VISHAY-GS		1
6	C105	CE82u400V85SD,SHL,GS	삼영,삼화,만유		1
7	C103,104	KNB1560MKP-334K	ISKRA	PILCO,선일	2
8	VS1	VARISTOR 7D471	ILJIN(AMOTECH)	CNR	1
9	C101,102	DG102Y1	두산, 동일		2
10	C106	DG222Y1	두산, 동일		1
11	C2	CE220U25V105LXZ,WL,RT	삼영,삼화,만유		1
12	CN100	SC-8R-F152P32R-GB	SUPERCOM		1
13	CN101	GIL-S-9P-S2T2-EF	LG전선		1
14	IC101	FSDM0565R	FAIRCHILD		1
15	CN1,2,3,4	35002WR-02, JE207-B1T-02	연호	JAEEUN	4
16	T101	TRSL014A	동흥	GET	1
17	T3	TRS1801U - DIP	경인,링보	다폰	1
18	U1,2	AP4511GD-DIP	APEC		2
19	U3	BIT3105 - DIP	BITEK		1
20	D101	RS1J, UF4007	TSC	SHS	1
21	ZD104	ZY160	SHS		1
22	D2,4	DAN217,BAV99	Rohm	DIODES	2
23	D5	DAP202U	Rohm		1
24	ZD1,2,3	UDZS5.6B,BZT52C5V6S-7	Rohm	DIODES	3
25	ZD102	UDZS10B,BZT52C10V0S	Rohm	DIODES	1
26	ZD101,103	UDZS20B,BZT52C20V0S	Rohm	DIODES	2
27	Q1	2N3904,MMBT3904	Rohm	DIODES	1
28	C1,17	CC106Z10V3216	삼성,TDK	태양유전	2
29	C8	CC473K50V2012	삼성,TDK	태양유전	1
30	C13	CC271K50V2012	삼성,TDK	태양유전	1
31	C6,7,9,12,20	CC103K50V2012	삼성,TDK	태양유전	5
32	C11,22,24,122	CC104K50V2012	삼성,TDK	태양유전	4
33	C3,4,14,19,119	CC105Z16V2012	삼성,TDK	태양유전	5
34	R116,117	CR2012J200	삼성	Rohm	2
35	R114,115	CR2012J181	삼성	Rohm	2
36	R28,29	CR2012J221	삼성	Rohm	2
37	R121	CR2012J122	삼성	Rohm	1
38	R119,122	CR2012J332	삼성	Rohm	2
39	R1,16,20,22,24	CR2012J103	삼성	Rohm	5
40	R2,3,10	CR2012J183	삼성	Rohm	3

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NO.	Ref.	PART TYPE	1st. Vendor	2nd. Vendor	Q,ty
41	R12	CR2012J433	삼성	Rohm	1
42	R26	CR2012J753	삼성	Rohm	1
43	R11	CR2012J134	삼성	Rohm	1
44	R5	CR2012J154	삼성	Rohm	1
45	R8,25	CR2012J224	삼성	Rohm	2
46	R9	CR2012J824	삼성	Rohm	1
47	R27	CR2012J105	삼성	Rohm	1
48	R15,19	CR2012F3600	삼성	Rohm	2
49	R126	CR2012F1431	삼성	Rohm	1
50	R123	CR2012F1801	삼성	Rohm	1
51	R124	CR2012F2702	삼성	Rohm	1
52	R101,102,103	CR3216J334	삼성	Rohm	3
53	R111	RD 1/4W J 3.9 OHM	제일전자	스마트전자	1
54	R105,106	RD 1/4W J 33K OHM	제일전자	스마트전자	2
55	C112	221K 1KV	동일	두산	1
56	C113	222K 1KV	동일	두산	1
57	C115	CE680u25V105RD,KM	삼영,삼화,만유		1
58	C117,118	CE1000u10V105RD,KM	삼영,삼화,만유		2
59	C110	CE47U50V 85/CE47U50V 105	삼영,삼화,만유		1
60	IC102	TL431A	Fair Child	우석	1
61	BC102	EBFL001A	동흥전자	GET	1
62	C5,10	CL100K3K	두산전자	동일	2
63	D102	PR1003, FR104	Diodes	성호반도체	1
64	TH101	SCK08053MS,NTC 5D-9	Thinking	삼경썬라믹	1
65	F101	SR-5 3.15A	세이프퓨즈		1
66	P.W.B FR-1	PL1742C20	다산	동명	1

-Inverter Circuit

