





ALLEN&HEATH

Kernick Industrial Estate,
Penryn, Cornwall,
England. TR10 9LU
Tel: +44 (0)8707 556250
Fax: +44 (0)8707 556251

ISSUE	BY	DATE	CHK BY
3.1	ARJ	24-11-05	

FID1 FID2 FID3 FID4 A11 A12

FILE: AG5609 PSU_MAINS ISSUE 3.1.Sch

PRINTED: 12:00:59 12-Nov-2007

TITLE: XONE 42 POWER SUPPLY
PAGE:

DRG No: C5609 ISSUE: 3.2 SHEET: 1 OF 1

A B C D E F G H

Designator	Description
BR1	BRIDGE RECTIFIER (AE3477)
C45	CAPACITOR MULTILAYER CERAMIC 100NF 100V (AF2689)
C46	CAPACITOR CERAMIC SMD0805 100N (AF2851)
C47	CAPACITOR ELECTROLYTIC 10uF 50V (AF0214)
C48	CAPACITOR CERAMIC SMD0805 100N (AF2851)
C49	CAPACITOR CERAMIC SMD0805 100N (AF2851)
C50	CAPACITOR METALISED POLYESTER 100NF 275V X2 (AF3073)
C51	CAPACITOR METALISED POLYESTER 100NF 275V X2 (AF3073)
C52	CAPACITOR METALISED POLYESTER 100NF 275V X2 (AF3073)
C53	CAPACITOR METALISED POLYESTER 100NF 275V X2 (AF3073)
C55	CAPACITOR ELECTROLYTIC 10uF 400V (AF3481)
C56	CAPACITOR ELECTROLYTIC 10uF 400V (AF3481)
C57	CAPACITOR ELECTROLYTIC 68uF 400V 105degC (AF5616)
C58	CAPACITOR COG SMD0805 2N7 50V (AF5820)
C59	CAPACITOR CERAMIC SMD0805 150P (AF3533)
C60	CAPACITOR ELECTROLYTIC 120uF 63V LESR (AF3464)
C61	CAPACITOR ELECTROLYTIC 120uF 63V LESR (AF3464)
C62	CAPACITOR ELECTROLYTIC 120uF 63V LESR (AF3464)
C63	CAPACITOR METALISED POLYESTER 2N2 250V Y2/X1 (AF3071)
C64	CAPACITOR ELECTROLYTIC 470uF 25V LESR (AF3462)
C65	CAPACITOR ELECTROLYTIC 470uF 25V LESR (AF3462)
C66	CAPACITOR ELECTROLYTIC 470uF 25V LESR (AF3462)
C67	CAPACITOR ELECTROLYTIC 470uF 25V LESR (AF3462)
C68	CAPACITOR CERAMIC SMD0805 NOT FITTED
CN26	Connector BOX,Molex Type 0.1" Pitch 5x2 pins (AL4662)
CN27	IEC FILTERED MAINS INLET 6A (AL3458)
D11	DIODE FAST AVALANCHE SMD BYG80G 400V 2A (AE5412)
D12	DIODE FAST AVALANCHE SMD BYG80G 400V 2A (AE5412)
D13	DIODE FAST AVALANCHE SMD BYG80G 400V 2A (AE5412)
D14	DIODE FAST AVALANCHE SMD BYG80G 400V 2A (AE5412)
D15	DIODE P6KE200A TAPED (AE3471)
D16	DIODE BYV26E 1KV 1A (AE3470)
F1	FUSE HOLDER 20mm (AL3178)
JP1	LINK ASSIGNMENT TC WIRE ,AH0070
L1	CHOKE ACEMI 20mH 0.5A (AM3466)
L2	INDUCTOR 4.7uH (AM3467)
L3	CHOKE 4.7UH (AM3567)
L4	CHOKE 4.7UH (AM3567)
L5	CHOKE 4.7UH (AM3567)
L6	CHOKE 4.7UH (AM3567)
NTC1	INRUSH SUPPRESSOR THERMISTOR S 236/20/M NTC20R (AE3478)
P1	SOLDER PIN
PSU1	FIXING HOLE 3.2mm
PSU2	FIXING HOLE 3.2mm
PSU3	FIXING HOLE 3.2mm
Q7	TRANSISTOR MOSFET N CHANNEL FAST POWER STB4NC80ZT4 (AE5411)
R103	RESISTOR METAL FILM SMD0805 1K0 1% (AC0369)
R104	RESISTOR METAL FILM SMD0805 100K 1% (AC2843)

R105	RES SMD TF 12K 0.5% 0805 MET (H1Y84YT) (AC6019)
R106	RESISTOR METAL FILM SMD0805 150K 1% (AC5414)
R107	RESISTOR METAL SMD0805 20K 1% (AC5057)
R108	RESISTOR METAL FILM SMD0805 3K3 1% (AC3061)
R109	RESISTOR WIRE WOUND 82K 1W (AC4096)
R110	RESISTOR CARBON SMD0805 68R 5% (AC4101)
R111	RESISTOR WIRE WOUND 1R0 1W (AC3461)
R112	RESISTOR WIRE WOUND 1R0 1W (AC3461)
SW1	SW DPST SOLTEAM MAINS PS3-22-P3AV (AL3338)
TX1	TRANSFORMER E30/15/7 UNIVERSAL (AM5547)
U17	IC SMD UC3842D1 PWM CONTROLLER (AE5413)
U18	7815 15V REGULATOR (AE0047)
U19	7915 -15V REGULATOR (AE0048)