

## G01 - 240 V, 2 leg

ITEM	QTY	REF DES	PART NUMBER	DESCRIPTION	MANUFACTURER
1	1	-	PB0987P01	PCB, NEXT GEN XCVR	Environment One Corp
2	1	SSR1	CPC1965Y	AC SOLID STATE RELAY	CLARE
3	1	C28	C2012X7R2A223K	CAP CER .022uF 100V X7R 10% 0805	TDK Corporation
4	1	C5	C2012C0G2A152J	CAP CER 1500PF 100V C0G 5% 0805	TDK Corporation
5	1	C4	GRM2195C2A330JZ01D	CAP CER 33PF 100V 5% NPO 0805	Murata
	8	C11 C13 C22 C26-27 C30 C32	C0805C104K5RACTU	CAP .10UF 50V CERAMIC X7R 0805	Kemet
6		C34			
7	1	C24	C0805C471J5GACTU	CAP, 470pF, 50V, NP0, 0805, Pb FREE	Kemet
8	1	C2	C0805C101J1GACTU	CAP CERAMIC 100PF 100V NP0 0805	Kemet
9	1	C1	C1206C272F1GAC	CAP CER 2700PF 100V C0G 1% 1206	Kemet
10	1	C17	TCA1A106M8R	CAP TANT 10UF 10V 20% SMD	ROHM
11	3	C10 C14 C29	B45196H2475M109	CAP TANT 4.7UF 10V 20%	Kemet
12	1	C31	EKMG500ELL100ME11D	CAP 10UF 50V ELECT KMG RAD	United Chemi-Con
13	1	C21	EKZE100ELL122MJ20S	CAP 1200UF 10V ELECT KZE RAD	United Chemi-Con
14	1	C15	EKY-160ELL471MH15D	CAP 470UF 16V ELECT KY RAD	United Chemi-Con
15	1	C7	ECQ-U2A474ML	CAP .47UF 250/275VAC ECQ-UL	Panasonic - ECG
16	1	C18	EKZE350ELL122ML20S	CAP 1200UF 35V ELECT KZE RAD	United Chemi-Con
17	1	C8	ECQ-V1H103JL	CAP .01UF 50V STACK METAL FILM	Panasonic - ECG
18	3	C9 C20 C25	ECQ-V1H223JL	CAP .022UF 50V STACK METAL FILM	Panasonic - ECG
19	2	C16 C19	ECQ-V1H683JL	CAP .068UF 50V STACK METAL FILM	Panasonic - ECG
20	1	C6	ECQ-V1H104JL	CAP .1UF 50V STACK METAL FILM	Panasonic - ECG
21	2	C12 C23	EKY-6R3ELL331MF11D	CAP 330UF 6.3V ELECT KY RAD	United Chemi-Con
22	1	L1	6000-221K-RC	INDUCTOR HI CURRENT RADIAL 220UH, Pb Free	JW Miller / Bourns
23	1	J1	Make from PBC36DFAN	CONNECTOR,0.100" PITCH,DOUBLE ROW,14 POS	Sullins
24	2	D4-5	1N4007-TP	RECTIFIER 1A 1000V DO-41, RoHS	Micro Commercial
25	2	D3 D6	CGRA4007-G	DIODE GEN PURPOSE 1000V 1A SMA, RoHS	Comchip Technology
26	1	D7	1N4148	DIODE SGL JUNC 100V 4.0NS DO-35	Fairchild Semiconductor
27	1	D8	MBRA140T3	DIODE SCHOTTKY 40V 1A SMA	ON Semiconductor
28	1	D2	DFLZ12-7	DIODE ZENER 1W 12V POWERDI123	Diodes Inc
29	1	J2	Make From PBC36SFAN	HEADER, .1" PITCH, 3 POS	Sullins
30	1	U5	MC34063ECN	IC REG SW BOOST/BUCK 1.5A 8SOIC	Texas Instruments
31	1	U4	AD71056ARZ	Energy Metering IC with Integrated Oscillator	Analog Devices
32	1	D1	LTST-C170CKT	LED RED CLEAR 0805	Lite-On
33	1	U2	MSP430F1122IDW	IC 16BIT MCU 4KB FLASH 20-SOIC	Texas Instrument
34	2	D9-10	CD0805-S01575	DIODE SWITCH 75V 200MW	Bourns
35	1	NTC1	NCP21XQ471J03RA	THERMISTOR 470 OHM NTC 0805 SMD	Murata
36	1	U9	LMC6482AIM	IC OP AMP DUAL CMOS R-R 8-SOIC	National Semiconductor
37	1	U7	TLP421(GR)	PHOTOCOUPLER TRANS-OUT 4DIP	Toshiba
38	1	R26	3296Y-1-504	POT 500K OHM 3/8" SQ CERM SL MT	Bourns
39	1	PTC1	2381 660 56393	THERMISTOR PTC 120 OHM 265V	BC COMPONENTS
40	1	PTC2	YM120D170N250	THERMISTOR PTC OCP 25 OHM 25C	GE Sensing
41	1	U6	LM7805CT	IC REG 1A POS 0-125DEG C TO-220	Fairchild Semiconductor
42	1	U3	LM78L05ACZ	IC REG 0.1A 0-125DEG C TO-92, Pb FREE	Fairchild Semiconductor
43	1	U8	FAN2500S33X	100 mA CMOS LDO Regulator	Fairchild Semiconductor
44	1	K1	T7CS5D-06	RELAY PWR PC MNT SPDT 12A 6VDC	Tyco
45	1	R39	ERJ-6ENF2260V	RES 226 OHM 1/8W 1% 0805	Panasonic - ECG
46	1	R6	ERJ-6ENF3400V	RES 340 OHM 1/8W 1% 0805	Panasonic - ECG
47	1	R7	ERJ-6ENF4990V	RES 499 OHM 1/8W 1% 0805	Panasonic - ECG
48	1	R12	ERJ-6ENF1501V	RES 1.50K OHM 1/8W 1% 0805	Panasonic - ECG
49	1	R28	ERJ-6ENF5113V	RES 511K OHM 1/8W 1% 0805	Panasonic - ECG
50	1	R30	ERJ-6ENF5902V	RES 59.0K OHM 1/8W 1% 0805	Panasonic - ECG
51	1	R10	ERJ-6GEYJ622V	RES 6.2K OHM 1/8W 5% 0805	Panasonic - ECG
52	1	R14	ERJ-6ENF7501V	RES 7.50K OHM 1/8W 1% 0805	Panasonic - ECG
53	1	R38	ERJ-6ENF95R3V	RES 95.3 OHM 1/8W 1% 0805	Panasonic - ECG
54	2	R8-9	ERJ-6ENF1541V	RES 1.54K OHM 1/8W 1% 0805 SMD	Panasonic - ECG
55	3	R16-18	ERJ-6GEYJ1R0V	RES 1 OHM 1/8W 5% 0805	Panasonic - ECG
56	1	R1	ERJ-6GEYJ200V	RES 20 OHM 1/8W 5% 0805	Panasonic - ECG
57	1	R3	ERJ-6GEYJ360V	RES 36 OHM 1/8W 5% 0805	Panasonic - ECG
58	1	R4	ERJ-6GEYJ271V	RES 270 OHM 1/8W 5% 0805 SMD	Panasonic - ECG
59	1	R2	ERJ-6GEYJ301V	RES 300 OHM 1/8W 5% 0805 SMD	Panasonic - ECG
60	2	R23 R41	ERJ-6GEYJ471V	RES 470 OHM 1/8W 5% 0805 SMD	Panasonic - ECG
61	1	R15	ERJ-6GEYJ621V	RES 620 OHM 1/8W 5% 0805 SMD	Panasonic - ECG
62	2	R31 R34	ERJ-6GEYJ102V	RES 1.0K OHM 1/8W 5% 0805	Panasonic - ECG
63	1	R22	ERJ-6GEYJ155V	RES, 1.5M OHM, 1/8W, 5%, 0805, Pb FREE	Panasonic - ECG
64	2	R35-36	ERJ-6GEYJ182V	RES 1.8K OHM 1/8W 5% 0805	Panasonic - ECG
65	2	R29 R40	ERJ-6GEYJ103V	RES 10K OHM 1/8W 5% 0805	Panasonic - ECG
66	1	R27	ERJ-6GEYJ123V	RES 12K OHM 1/8W 5% 0805	Panasonic - ECG
67	1	R21	ERJ-6GEYJ105V	RES 1M OHM 1/8W 5% 0805 Pb Free	Panasonic - ECG
68	1	R11	ERJ-6GEYJ222V	RES 2.2K OHM 1/8W 5% 0805	Panasonic - ECG
69	1	R32	ERJ-6GEYJ203V	RES 20K OHM 1/8W 5% 0805, Pb FREE	Panasonic - ECG
70	1	R37	ERJ-6GEYJ302V	RES 3.0K OHM 1/8W 5% 0805, Pb FREE	Panasonic - ECG
71	1	R24	ERJ-6GEYJ304V	RES 300K OHM 1/8W 5% 0805	Panasonic - ECG
72	1	R33	ERJ-6GEYJ513V	RES 51K OHM 1/8W 5% 0805	Panasonic - ECG
73	1	R25	CFR-50JB-330K	RES 330K OHM 1/2W 5% CARBON FILM	Yageo
74	2	R19-20	MFR-25FBF-634K	RES 634K OHM 1/4W 1% METAL FILM, AXIAL, Pb FREE	Yageo
75	1	R5	RSF100JB-120R	RES 120 OHM 1W 5% METAL OXIDE	Yageo
76	1	R13	RSF200JB-180R	RES 180 OHM 2W 5% METAL OXIDE	Yageo
77	1	U1	EM4095HMSO16A	RFID TRANSCIEVER	EM MICROELECTRONICS
78	2	Q1-2	2N3904BU	IC TRANS NPN SS GP 200MA TO-92	Fairchild Semiconductor
79	1	C3	TZ03P450F169B00	CAP 6.8-45.0PF 6MM TOPADJ YEL	Murata

80	1 T1	FP24-250	TRANSFORMER 12VAC .5A FLAT PACK PWR	Triad Magnetics
81	1 WP4, WP5	PA2148P01	Calibrated Shunt	Environment One Corp
82	8" WP1	Blue	Blue, 16AWG Stranded- See Notes	
83	8" WP2	Orange	Orange, 16AWG Stranded - See Notes	
84	8" WP3	L2	White, 16AWG Stranded - See Notes	
85	14" WP6	Motor	White, 16AWG Stranded - See Notes	
86	9" WP7	L1	Black, 16AWG Stranded - See Notes	
87	8" WP8	Coil	Red, 16AWG Stranded - See Notes	
88	1 WP9 , WP10	NA0003G01	ASM, XCVR COIL	Environment One Corp
89	12" WP11	Wet Probe	Yellow, 18AWG Stranded - See Notes	
90	9" WP21	GND	Green w/ Yellow Stripe, 14AWG Stranded - See Note 6	
91	4 D11 - D14	BZT52C6V8-7-F	DIODE ZENER 500MW 6.8V SOD123	Not Installed
92	1 F1			Not Installed
93	1 F2			Not Installed
94	1 For U2	NA0012P01	Software, Next Gen XCVR	Environment One Corp
95	2 JP1, JP3	923345-03-C	Jumper Wire, Orange, 0.3" long	Not Installed
96	1 for J2	SSC02SYAN	Jumper, Shorting, Gold	Sullins