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	Electri Specification f				eF17	5-248				
	Telkoor P numb				900-02	48-000	0			
	Produ Descriptio		al Outp	out 1	175W op	en fram	ne powe	er si	upp	ly
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CUSTOMER		SIZE	CAGE	CODE	S5417	DWG. NO.	0248-DOC1-	10	REV	A
General		SCALE			RELEASE DATE	10/11/2005	SHEET	1	OF	5



REVISION HISTORY									
Rev Level	Rev Date	Change Made	Reason for Change	Effective					
А	10/11/05	Initial Release		10/11/05					

	Approvals	
	Name	Date
Written by:	Sam Sadot	10/11/05
Engineering:	Sam Sadot	10/11/05
Sales & Marketing:	Mor Allon	10/11/05
Management:	Yossi Ben Ami	10/11/05

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Input:

Input Voltage:	90-264VAC
Frequency:	47-63Hz
Inrush Current:	60Amaximum, cold start at 25°C, 250Vac
Power Factor:	0.96 typical at 230Vac, full load 0.98 typical at 115Vac, full load
Efficiency	80% typical at 230Vac, full load 75% typical at 115Vac, full load
Input Protection:	Internal Line Fuse: IEC type 5A 250Vac Normal BLO
Brown – Out:	75 to 300Vac

Output Voltages & Currents:

Output	Output Voltage	I Min	I Max	I Peak
V1	48.0V	0.5A	2.9A	3A
V2	+12.0V	0	5A	5.5A

Output Power:		175W							
Line Regulation:		\pm 0.5% for Vin (Min) to Vin (Max).							
Load Regulation:									
V1		\pm 2% for load change from zero to full load							
V2		\pm 4% for load change from 10% to 100% load							
Ripple & Noise									
V1		75mV P-P							
V2		120mV							
Output Voltage Adjustment	Range	V1 only \pm 5%							
Initial Set Point Tolerance:		$V2 \pm 1\%$							
Overshoot & Undershoot:		Less than 5% at turn ON-OFF							
Transient Load Response:		$\pm 5\%$ Max. Deviation for load change of 25% to 75% , at slew rate of 1A/usec, recovery time less then 500Msec							
Turn On Delay:		2 sec. Maximum.							
Hold-up Time:		16msec minimum at any input voltage in range and full load							
Turn-On Rise Time:		V1- 50Msec Max . V2-250Msec Max.							
Over-current Protection:		V1 105 to 130% of Im, constant current limit, automatic recovery (V2 SD) V2 110 to 150% of Im constant current limit, automatic recovery							
Over-voltage Protection:		Outputs shut down at 125% Max. of nominal, AC input must Recycled to reset.							
Temperature Protection:		Shutdown due to excessive internal temperature 90 to 97°C (base plate), automatic recovery.							
Remote Sense		Available on V1							
Current Share		Yes on V1- N+1 single wire. V2- Natural current sharing							
		Internal O-Ring diode on V1 Only							

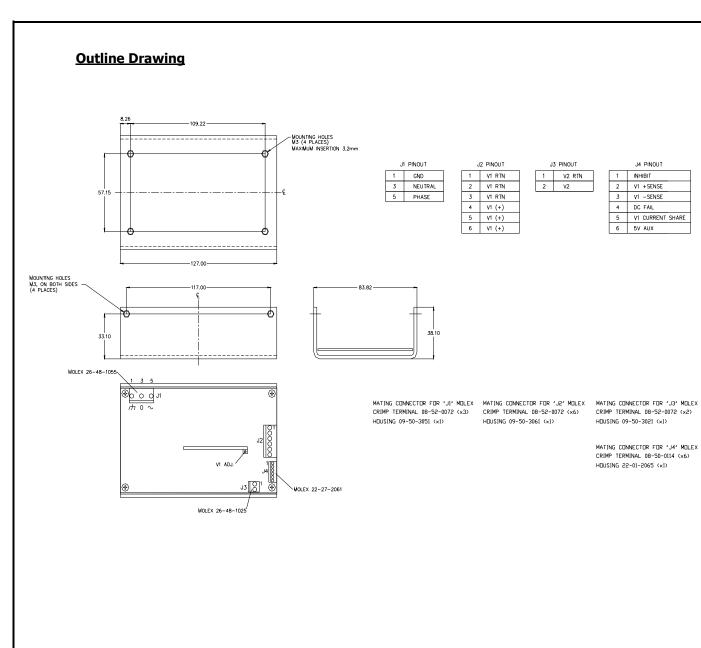
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Signals & Commands	
Inhibit:	Active low, all output shut down.
Power OK:	Open collector, active low when any of V1, V2 outputs drop 10% below rated output.
Environmental Specifications:	
Temperature:	Operating: -5° C to $+50^{\circ}$ C (de-rating linearly to 70 °C with 50% de-rating). Storage: -25° C to $+85^{\circ}$ C.
Temperature Coefficient:	0 to 70°C \pm 0.005%/°C
Cooling:	100W free convection cooling (base plate cooling). 175W continuous forced air cooling 250 LFM
Humidity:	Maximum 5% to 95% RH non-condensating.
Altitude:	Operating 3,000 ft. Non- operating 40,000 ft.
Vibration:	Three orthogonal axes at 1 octave/min, 5 min dwell at four major resonances at 0.75G peak, 5Hz to 500Hz.
Safety Regulatory & EMC Specifica	ations:
MEETS FCC CLASS B, CISPR 22 CLASS	B, EN55022 CLASS B – With an external input line filter
EN61000-3-2	HARMONICS
EN61000-3-3	VOLTAGE FLUCTUATION
EN6000-4-2	ESD +8KV AIR +4KV CONTACT DISCHARGE, performance criteria B
EN61000-4-3	RADIATED IMMUNITY: 80-1000Mhz 3V/m, AM 80% (1KHz), criteria A
EN61000-4-4	FAST TRANSIENT: 1KV for AC power port, 0.5KV for DC power I/O and signals Port, performance criteria B
EN61000-4-5	SURGE: 2KV common mode and 1KV differential mode
EN61000-4-6	3VRMS, 80% A.M. BY 1kHz
EN61000-4-8	3A /m at 50Hz, performance criteria A.
EN61000-4-11	VOLTAGE Dips and interruption: 30% reduction for 10mSec –Criteria B, 60% For 100mSec. Criteria C, 95% reduction for 5000mSec Criteria C.
RoHS	In full compliance with the RoHS directive #2002/69/EC
Dielectric Withstand:	
Input to Case:	Input to case: 1500VAC.
Input to Output:	Input to output: 3000VAC
Output to Case:	Output to case: 100VDC.
Safety Agency Compliance:	UL 60950 CSA C22.2 -234, LEVEL 3. EN-60950 CE - MARK
Leakage Current:	2mA @50/60 Hz , 264Vac input.
MTBF:	300,000 hours minimum per BELCOR 332,issue 6 specification @30 degrees C (Max. junction temperature 110° C , Capacitors 105° C)
Mechanical Dimensions	127mm v 84mm v 38 0mm
Size Weight	127mm x 84mm x 38.0mm 650 Gr.
Input AC Connector	(J1) 3 Pin Molex 26-48-1055
Output Connector	V1 (J2) 6 Pin Molex Type 26-48-10xx V2 (J3) 2 Pin Molex Type 26-48-1025
Command & Control Connector	(J4) 6 Pin Molex Type 22-27-2061

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