

550-900W Multiple Output Modular Power Supply

Features

- ◆ Suitable for higher volume applications
- ◆ 1-10 Wide Range Outputs With Adjustment
- ◆ Output Voltages From 1.8 - 56V
- ◆ Medical Approval Options
- ◆ MIL-STD-810 Shock and Vibration
- ◆ PFC compliant to EN61000-3-2
- ◆ Safety Agency Approvals EN, cULus, BSI, CE



Key Market Segments & Applications



Specifications			
Model		VEGA Lite 550	VEGA Lite 750
Input Voltage Range	(1)	-	85-264VAC 47-63Hz(2)
Efficiency (Typ.)	%	75% at 230VAC and full load, configuration dependent	
Nominal Output Voltages	VDC	1.8 - 56V (See page 2)	
Output Voltage Adjustment	-	Wide range, via potentiometer or remote adjust pin, module dependent	
Minimum Load	A	0A	
Max Output Power	(3)	W	900 ⁽³⁾
Max Ripple & Noise (pk-pk)	mV	<1% (or 50mV which ever is greater) using EIAJ test method & 20MHz bandwidth	
Regulation (load, line, cross)	%	Less than 0.5%	
Hold Up Time	ms	16ms min at 100VAC and full load	
Over Voltage Protection	%	120% - 150% (See website for more details)	
Overload/Short Circuit	%	105-125%, constant current characteristic, 150% max short circuit current	
Remote ON/OFF Control	-	A TTL compatible signal will turn ON/OFF all output modules (optional)	
Remote Sense	V	Compensates for total of 0.75 volts total line drop (optional on dual output modules)	
Isolation	(4)	-	Input-Output 4.3kVDC ⁽⁴⁾ ; (2 x MOPPs (3rd edition 60601)); Input-Ground 2.3kVDC; Output-Ground 200VDC
Conducted EMI	-	EN55022 Class B, (as per CISPR .22)	
Radiated EMI	-	EN55022 Class B, (as per CISPR .22)	
Operating Temperature	°C	0°C to 50°C, derate ea. output @ 2.5%/°C from 50°C to 65°C. Consult factory for 70°C operation. -20°C startup requires a 30 min. warm-up period.	
Cooling	-	Internal fan	
Dynamic Load Response	-	<6% or 300mV of set voltage for 50% load change (above 25% load), recovery to within 1% of nominal within 500 microseconds.	
Safety Agency Approvals	-	UL/CSA/IEC/EN 60950-1, UL/CSA/IEC/EN 60601-1, ANSI/AAMI ES60601-1, IEC/EN 61010-1, CE Mark	
Vibration	G	MIL-STD-810E, Method 514.4, Pro I, Cat 1, 9 2G, 10-200Hz sweep for 1hr to search for resonant. 6G random, 6-Axis to IEC68-2-64	
Shock	G	MIL-STD-810F, Method 516.5, Pro I, IV, VI; 20G per IEC68-2-27	
Switching Frequency	kHz	200	
Weight (Typ.)	lbs	3.0 lbs. + 0.25 lbs. / used slot; maximum # of slots =5	
Size (L×W×H)	in(mm)	10.6" x 5" x 2.5" (268.4mm x 127mm x 63.5mm)	
Warranty	yrs	3 Years	

Consult datasheet and application notes for detailed specifications and test methods.

- (1) 440Hz with reduced PFC, consult factory
 (2) Will operate with 130-330VDC, CE Mark safety approval only applies.
 (3) See input derating curves
 (4) 4kVAC type tested (non-production test). Refer to CB report

Choose your options for boxes A through C. Select output voltage, single or dual output module code from the tables below, and options (if required) A maximum of 5 module slots may be used. List actual output voltages required to have them pre-set by the factory.

* Max Leakage calculated at 264VAC, 63Hz. Note: Contact Lambda Technical Support for non-standard leakage options emissions compliance.
(5) Type testing result

Module	V Range	Amp	Slots	Module	V Range	Amp	Slots
Single Output							
C1S	1.8-3.4V	35A	1	D4S	14-18V	18A	1.5
D1LS	1.8-3.4V	50A	1.5	E4S	14-19V	30A	2
E1S	1.8-3.4V	60A	2	C4S	16.3-18V	14A	1
L1S	4.2-5.1V	35A	1	C5S	21.6-30V	10A	1
D2S	3.8-7.5V	45A	1.5	D5S	21-28V	15A	1.5
D1HS	3.9-5.1V	50A	1.5	E5HS	24-28V	25A	2
E2S	3.8-7.5V	60A	2	HH5/4S	32.5-48V	4.5A	1
B2S	5-8V	25A	1	BB4S	32.6-40V	10A	2
C3S	9.1-15V	18A	1	C5B4S	43-48V	10A	2
D3S	8-15V	24A	1.5	DD5S	42-56V	15A	3
E3LS	8-12.5V	40A	2				

Module	V1 Min - V1 Max	V1 Amp	V2 Min - V2 Max	V2 Amp	Slots
Dual Output					
H1H/1LS	3.9V - 5.1V	12A	1.8V - 3.4V	8A	1
H1H/3S	3.9V - 5.1V	12A	9.1V - 15.5V	6A	1
H3/1HS	9.1V - 15.5V	10A	3.9V - 5.1V	8A	1
H3/3S	9.1V - 15.5V	10A	9.1V - 15.5V	6A	1
H5/1HS	16.2V - 28V	5A	3.9V - 5.1V	8A	1
H5/3S	16.2V - 28V	5A	9.1V - 15.5V	6A	1
H5/4S	16.2V - 28V	5A	16.3V - 24V	4.5A	1



Output Options (Leave empty if not required) Inhibit, module good, and current share	N
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† Remote sense is standard on single output modules, optional on duals.

V1 V2 Module S Opt.

[] / [] [] [] [S] []

Output Options
 Inhibit, module good, and remote sense

N

(Leave empty if not required)

Full Description Example:
V5FSSF 5L1SN 12/12H3/3S 24C5S

550W power supply with standard forward air fan, screw terminal input connections, 1.5mA leakage input filter, AC fail with Global/fan inhibit & 5V @ 100mA aux. supply option with the following outputs:

With O/P inhibit, module good & current share options

Note the module descriptions are to be used as listed in the module tables.

Maximum Continuous Output Power

ac Input Voltage (V)	Vega Lite 550 Output Power (W)	Vega Lite 750 Output Power (W)
85	400	600
110	550	750
150	550	900
260	550	900

Mouser Electronics

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