

Features

- 5 x 8.5 x 1.61 inches
- Approval to EN60601 Edition 3.1
- Dual Fusing
- Current Sharing Option
- Peak Power Capability
- Standard IEC60601-1-2 : 2014 (4th Edition)
- 5 Vdc Stand by
- 12 V fan output
- Power Good / Power Fail Signal
- Suitable for BF application
- Lesser than 1U high
- Having high voltage output range up to 58VDC
- N+1 redundant power supply
- Single wire current sharing
- Built in OR-ing diode / FET (- R suffix)

	Electrical Specifications
Input Voltage	85-264 VAC/120-390 VDC, Universal
Input Frequency	47–63 Hz
Input Current	120 VAC: 8 A max. 240 VAC: 3.64 A max.
Input Protection	F16A/250 V in Live & Neutral both
No Load Power	Typ 3W over entire input range with main output kept off using Remote ON/OFF
Inrush Current	240 VAC: 25 A max.
Leakage Current	400 μA @ 240 VAC / 50 Hz Touch Current : < 100 μA
Efficiency	120 VAC: 88% Typical 240 VAC: 93%
Hold-up Time	120 VAC: 8 ms 240 VAC: 8 ms
Power Factor	120 VAC: 0.98 240 VAC: 0.95
Output Power	Forced Air Cooling, up to 800W (U-Channel),
	up to 750W (Slotted Cover and Plain cover)*Ref. Derating curve
Line Regulation	+/-0.5%
Load Regulation	+/-1%
Transient Response	<10%,50% to 100% load change, 50 Hz, 50% duty cycle, 0.1 A/µs, recovery time <5 ms
Rise Time	<100ms
Set Point Tolerance	+/-1%
Output Adjustability	+/-3%
Over Current Protection	110% Typ, HiccUp Type, Autorecovery
Over Voltage Protection	114%, Latch Type, AC Power to be recycled for recovery
Short Circuit Protection	Latch Type, AC Power to be recycled for recovery
Over Temperature Protection	130-140°C primary heat sink, autorecovery
Current Share	Upto 3 supplies can be connected in parallel (optional)
Switching Frequency	PFC converter:Variable, 85 kHz typical
	Resonant converter:Variable, 100 kHz typical
Operating Temperature	-40 to +70°C, refer derating curve
Storage Temperature	-40 to +85°C
Relative Humidity	95% Rh, noncondensing
Altitude	Operating: 16,000 ft.; Nonoperating: 40,000 ft.
MTBF	3.37m Hours, Telcordia -SR332-issue 3
Isolation Voltage	Input to Output 4245 VAC, Input to Earth 1625 VAC, Output to Earth 1500 VAC

Model Number	Туре	Voltage	Max. Load (Convection)	Max.Load (500 LFM) (Fan Cooled)	Min. Load	Ripple ¹
MVPS800-1012	U-Channel	12 V	25 A	33.33 A	0.0 A	2%
MVPS800-1015	U-Channel	15 V	25 A	33.33 A	0.0 A	2%
MVPS800-1024	U-Channel	24 V	25 A	33.33 A	0.0 A	2%
MVPS800-1030	U-Channel	30 V	20 A	26.66 A	0.0 A	2%
MVPS800-1048	U-Channel	48 V	12.5 A	16.66 A	0.0 A	2%
MVPS800-1058	U-Channel	58 V	10.34 A	13.78 A	0.0 A	2%
MVPS800-1S12	U-Channel + Slotted	12 V	17.5 A	31.25 A	0.0 A	2%
MVPS800-1S15	U-Channel + Slotted	15 V	17.5 A	31.25 A	0.0 A	2%
MVPS800-1S24	U-Channel + Slotted	24 V	17.5 A	31.25 A	0.0 A	2%
MVPS800-1S30	U-Channel + Slotted	30 V	14 A	25 A	0.0 A	2%
MVPS800-1S48	U-Channel + Slotted	48 V	8.75 A	15.625 A	0.0 A	2%
MVPS800-1S58	U-Channel + Slotted	58 V	7.25 A	12.93 A	0.0 A	2%
MVPS800-1T12	U-Channel + Cover	12 V	15 A	31.25 A	0.0 A	2%
MVPS800-1T15	U-Channel + Cover	15 V	15 A	31.25 A	0.0 A	2%
MVPS800-1T24	U-Channel + Cover	24 V	15 A	31.25 A	0.0 A	2%
MVPS800-1T30	U-Channel + Cover	30 V	12 A	25 A	0.0 A	2%
MVPS800-1T48	U-Channel + Cover	48 V	7.5 A	15.625 A	0.0 A	2%
MVPS800-1T58	U-Channel + Cover	58 V	6.2 A	12.93 A	0.0 A	2%
To order product with t	he redundancy diode optic	on please add	the suffix-R to you	r required part num	ber. For Example - I	VVPS800-1012-R

Pin Connections			
J1	1	AC LINE	
	2	NEUTRAL	
	3	EARTH	
J2	J2-A	+VE	
	J2-B	-VE	
J3	Pin 1	GND	
	Pin 2	5V AUX	
	Pin 3	PGPF	
	Pin 4	VS -	
	Pin 5	VS +	
	Pin 6	GND	
	Pin 7	RMT	
	Pin 8	CL2	
	Pin 9	CL1	
	Pin 10	LS	
J10, J11 (FAN OUTPUT)	Pin 1	+ VE	
	Pin 2	- VE	



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Notes

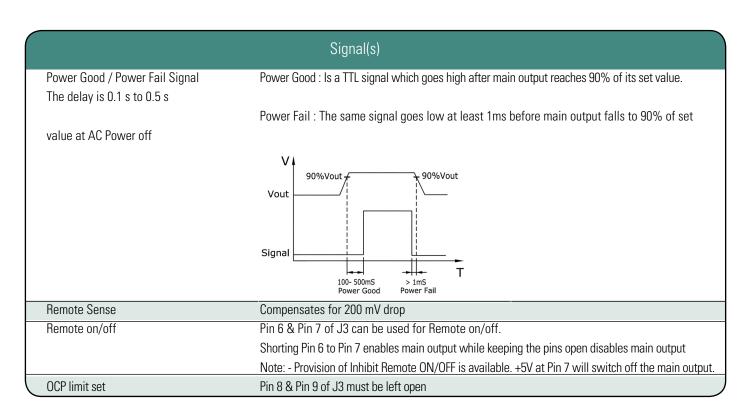
1. For Ripple measurement minimum output power requirement is 25 W.

Ripple is peak to peak with 20 MHz bandwidth and 10 µF (Electrolytic capacitor) in parallel with a 0.1 µF capacitor at rated line voltage and load ranges.

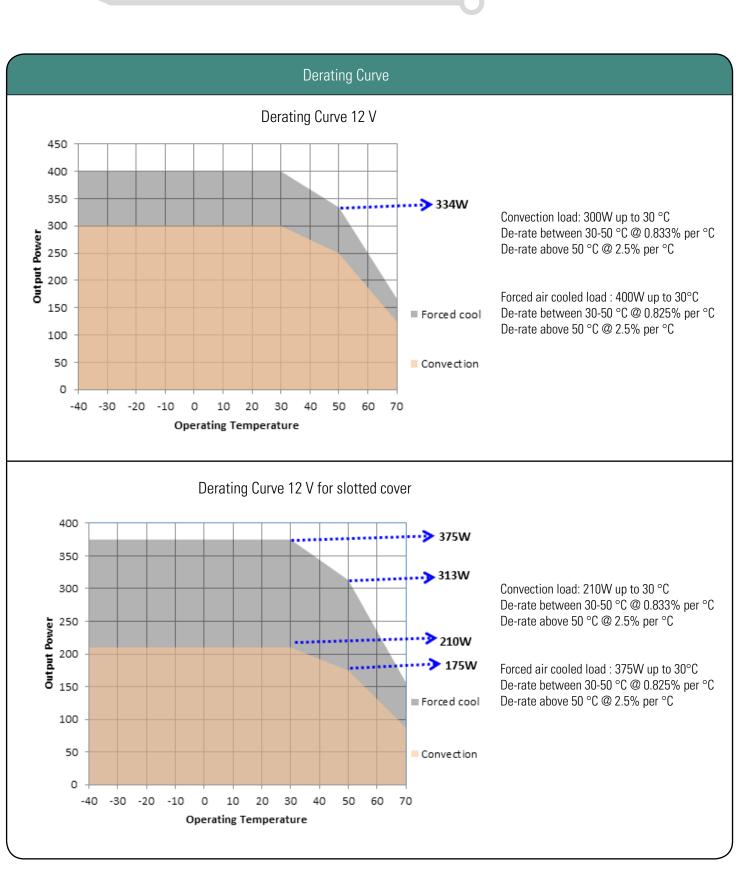
- 2. Combined output power of main output, fan supply and standby supply shall not exceed max. power rating.
- 3. Standby output voltage 5 V/ 1.5A(convection) with tolerance including set point accuracy, line and load regulation is +/-10%. Ripple and noise is less than 5%.
- 4. Specifications are for nominal input voltage, 25°C unless otherwise stated.
- 5. PSU is supplied with J3, pin-6 and pin-7 shorted to enable main output without remote on/off feature.
- 6. Fan supply output voltage is 12V/500mA with regulation band+/-30 % and Ripple is less than 10%. To get 12V Fan supply output voltage, minimum 10 % load on Main output voltage is required.

	Mechanical Specifications		
AC Input Connector (J1)	TE Connectivity: NC6-P107-03		
DC Output Connector (J2)	6-32 inches Screw Pan HD		
	Mating: Designed to accept Ring Tongue Terminal AMP : 8-31886-1,		
	wherein one 16 AWG(max) wire can be crim	ped.	
	Note : One Ring Tongue Terminal with 16 AWG	is recommended for current upto 11A only.	
	Use multiple tongue terminals with wire for r	more current.	
Signal Connector (J3)	Molex: 22-23-2101		
	Mating: 22-01-2107; Pins: 08-50-0113		
J10, J11 (Fan Output)	Make : TE Connectivity AMP Connectors		
	Description: CONN HEADER VERT 2POS 2.54	MM	
	MPN : 640456-2		
	Mating : 3-641535-2 / TE Connectivity AMP (Connectors OR	
	0022013027 / MOLEX with crimping 08-50-0	114 / MOLEX	
Dimensions	5.0 x 8.5 x 1.61 inches		
	(127 x 216 x 41 mm)		
Weight	1.1 kg		
	EMC		
Parameter	Conditions/Description	Criteria	
Conducted Emissions	EN 55011-B,CISPR22-B, FCC PART15-B	Class B	
Radiated Emissions	EN 55011	Class A (Class B with External king co	
		K5B RC 25x12x15-M or equivalent)	
Input Current Harmonics	EN 61000-3-2	Class A	
Voltage Fluctuation and Flicker	EN 61000-3-3	Complies	
ESD Immunity	EN 61000-4-2	А	
Radiated Field Immunity	EN 61000-4-3	А	
Electrical Fast Transient Immunity	EN 61000-4-4	А	
Surge Immunity	EN 61000-4-5	Α	
Conducted Immunity	EN 61000-4-6	А	
Magnetic Field Immunity	EN 61000-4-8	Α	
Voltage dips, interruptions	EN 61000-4-11	A & B	
	Safety		
CE Mark	Complies with LVD Directive		
Approval Agency	Nemko, UL, C-UL		
Safety Standard(s)	EN60601-1, IEC 60601-1 (ed.3),ANSI/AAMI ES	60601-1,	
	CSA C22.2 No. 60601-1		
Safety File Number(s)	UL Certificate No : 2019-02-21-E173812		
	CB Test Certificate No : NO105338		
	Nemko Certificate No : P19223365		

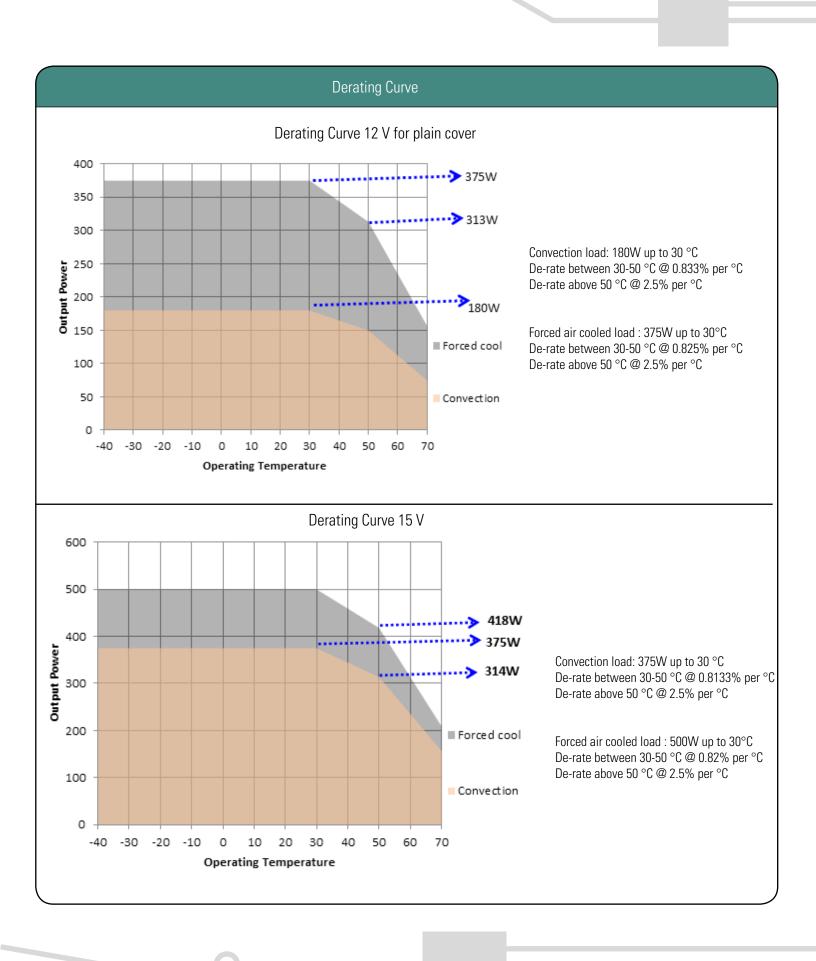


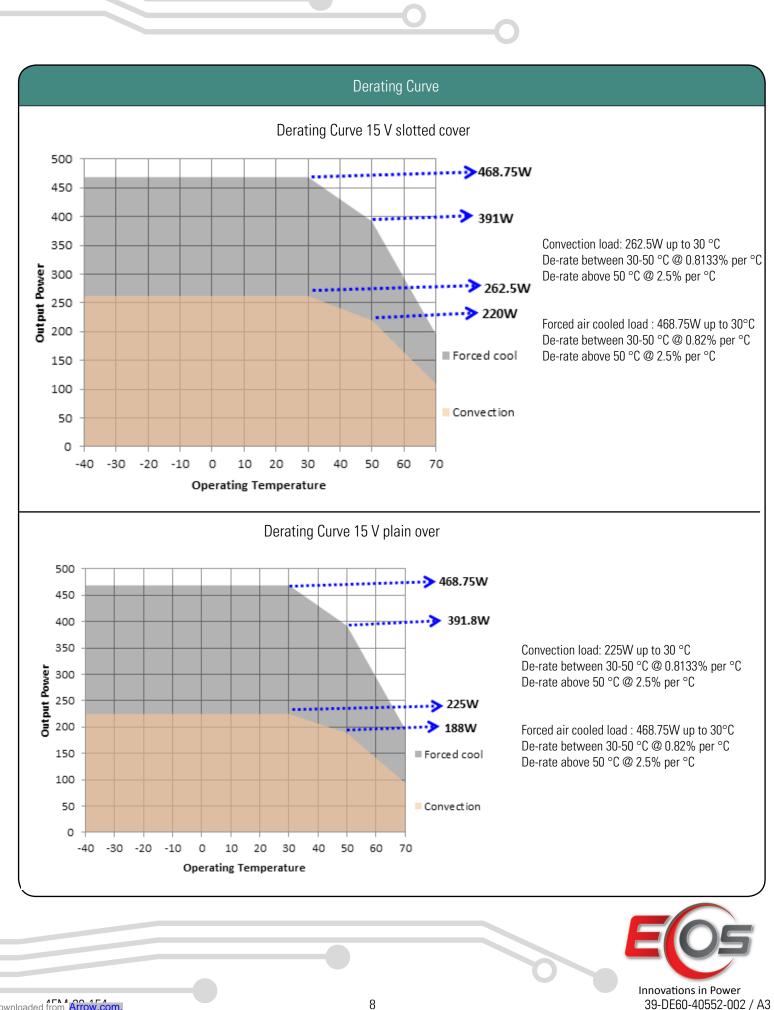


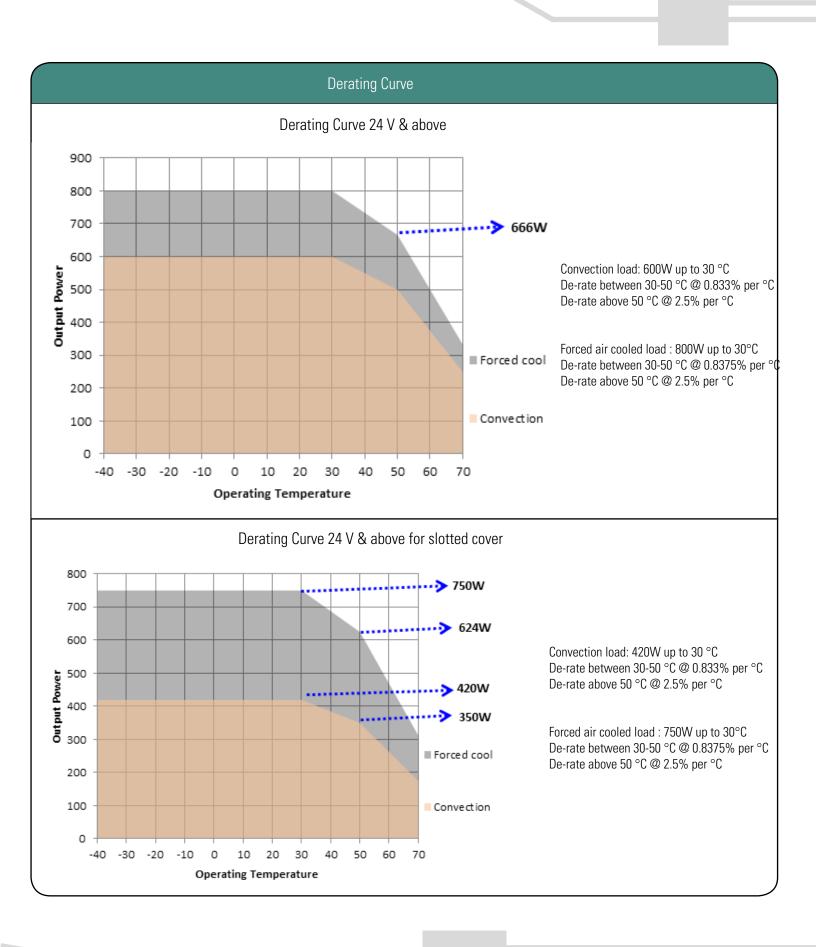


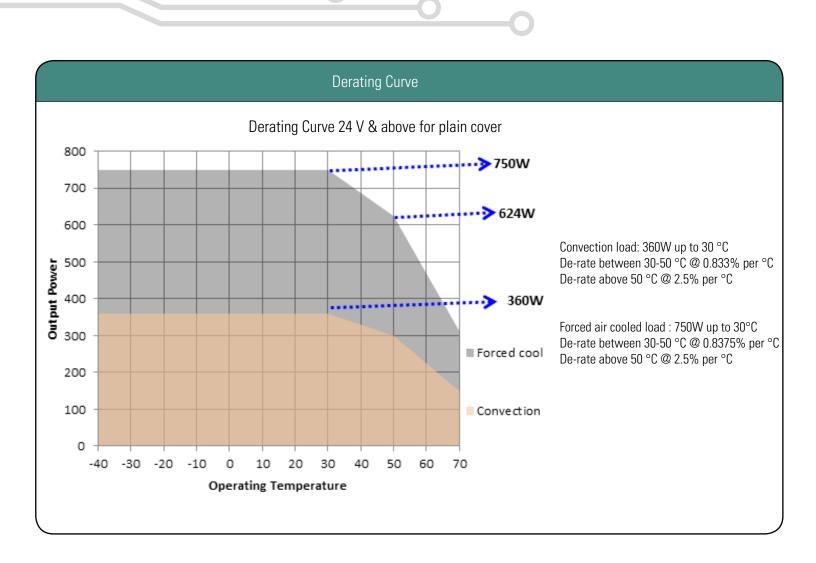




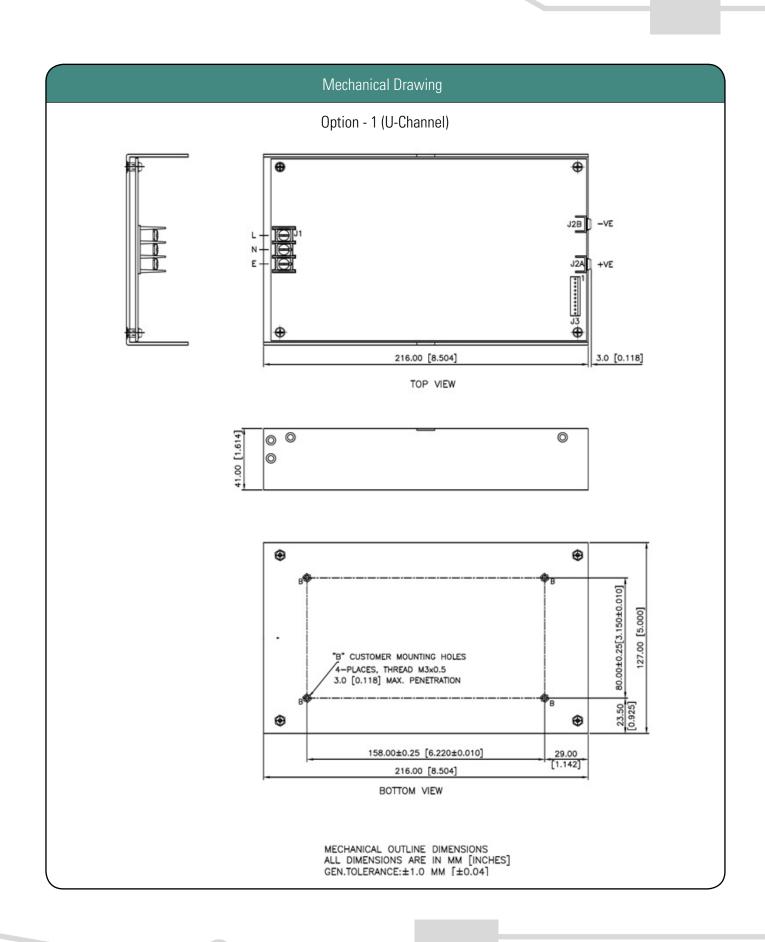


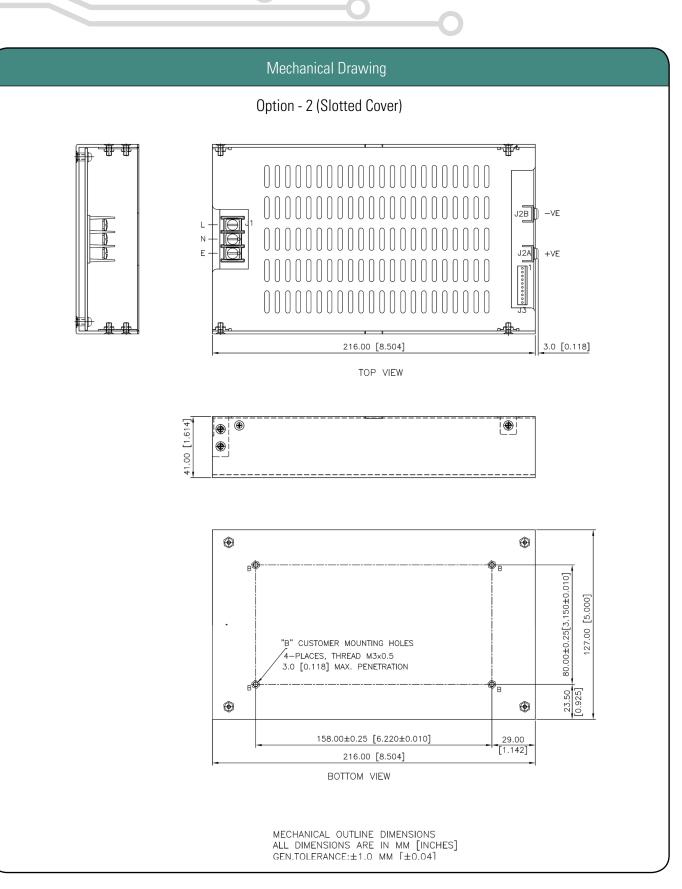






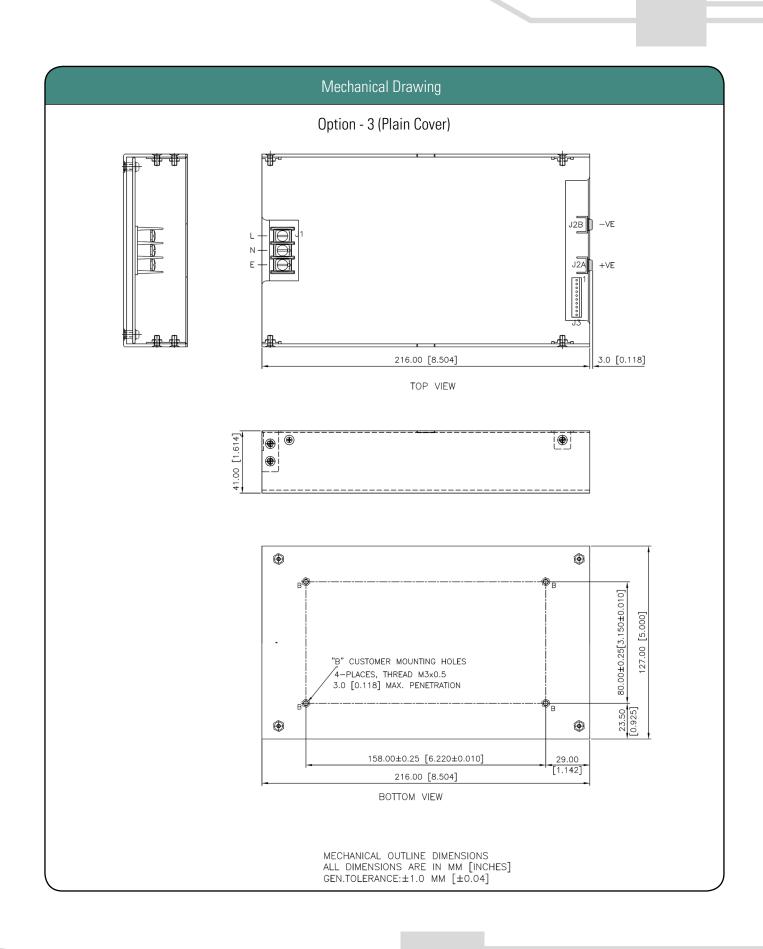






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Installtion instruction for current sharing:

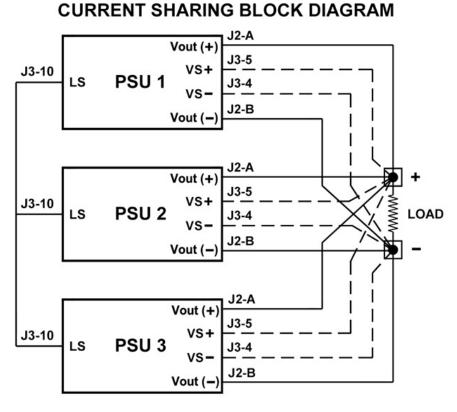
During the installation and setup of parallel supplies in a system it is important that a single remote sense point be used for all the supplies. The remote sense voltage between the supplies must be adjusted to within 1% to ensure the supplies are inside the 1% capture window. If the supplies are not initially adjusted inside the capture window the supplies will not current share satisfactorily.

Set-Up Procedures:

- 1. Connect load cables to the outputs of each supply.
- 2. Connect the remote sense lines to the load in twisted style . (A common remote sense point must be used for all the supplies in parallel).
- 3. Connect all the "LS" signal(Pin 10) on the J3 connector between the supplies.
- 4. Adjust remote sense voltage of each supply to within 1% of rated output voltage or readjust to required set point. (Adjustment to be done with all other parallel supplies off).
- 5. Current sharing between the supplies can be verified by monitoring the output current of each supply with a hall effect DC current probe. The supplies should share to within 10% of the total load current.

The maximum recommended power output for three units in parallel would be 2160W.

6. The current share circuit has a capture window voltage of +/- 1% of the rated output voltage. If the output remote sense voltage of one of the supplies is adjusted outside the 1% window the supplies will not current share satisfactorily.



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