

SLPOWER NCF425 SERIES

425 W Single Output Medical Grade - CF Rated*



Advanced Energy's SL Power NCF425 CF rated* medically approved AC-DC power supplies are available with a nominal main output of 12 V, 15 V, 24 V or 48 V. NCF425 series power supplies provide up to 425 W of output power with air flow. All models have output overvoltage, short circuit and overload protection and a 3.5 x 6 x 1.5 inch form factor.

AT A GLANCE

Total Power

425 W

Input Voltage

85 to 264 VAC

of Outputs

Single

SPECIAL FEATURES

- 5 kV Defibrillator Withstand
- Up to 425 W with Air Flow
- Up to 270 W Convection Cooled
- 3.5"W x 6"L x 1.5"H Size
- Universal Input 85 to 264 VAC
- Meets Class B Emissions Levels
- 7+ Years Electrolytic Capacitor Life
- Meets EN60601-1-2 4th Edition EMC
- Less than 10 µA Leakage Current
- Class I Input
- RoHS, REACH Compliant
- Includes 5 V Standby Output
- 3 Years Warranty

SAFETY

- IEC/UL/cUL/EN60601-1, Edition 3.2
- CF Rated*











- * The NCF Series models are suitable for CF Rated applications as they provide the below features:
- 1. Clearance and Creepage requirements between Primary and Ground for one MOPP. Primary and Secondary for two MOPP and Secondary and Ground for one MOPP.
- 2. Hi-pot tests between Primary and Ground, Primary and Secondary and Secondary and Ground.
- 3. Type CF Patient Leakage Current <10 μ A under Normal Condition and <50 μ A under Single Fault Condition

Note: As the NCF Series is classified as a component power supply, it cannot be declared an Applied Part, and therefore cannot be declared CF Rated. However, the NCF Series has been evaluated for and meets the requirements related for use in CF applications.

ELECTRICAL SPECIFICATIONS

Input Range 85 to 264 VAC, 47 to 63 Hz, 10 Input Current 3.7 Λ max at 115 VAC, 1.8 Λ max at 230 VAC Inrush Current 40 Λ max, cold start at 264 VAC input Input Fuses 6.3 Λ, 250 VAC fuse provided in both line & neutral Leakage Current Earth Leakage Current Patient Leakage Current Object of the start of t	Input				
Inrush Current Input Fuses 6.3 A, 250 VAC fuse provided in both line & neutral Leakage Current Earth Leakage Current Patient Leakage Current Fifficiency 90% typical No Load Input Power Load Input Fower Load Regulation Voltage - CF Rated Load Regulation Load Regulatio	Input Range	85 to 264 VAC, 47 to 63 Hz, 1Ø			
Input Fuses 6.3 A, 250 VAC fuse provided in both line & neutral Leakage Current Earth Leakage Current (-550 µ A at 264 VAC, 60 Hz, NC) Patient Leakage Current Filiciency No Load Input Power 1.0 W Input/Ground: 1500 VAC (1 MOPP) Input/Output: 4500 VAC (2 MOPP) Output/Ground: 1500 VAC (1 MOPP) Solation Voltage - CF Rated Voltage - CF Rated See "Ordering Information" section Ripple and Noise Load Regulation 1% of Yout on all models Load Regulation 2% Line Regulation 5% Minimum Load Not required Capacitive Load 1000 µF Adjustment Range 15% (optional) Initial Set Point Tolerance 11% Overshoot 43% overshoot at turn-on, <1% overshoot at turn-off, under all conditions Holdup Time (main output) 20mS min. Measured at 300W output from 100VAC, Yout reduces to 90% of original value before AC drop out. Regilability Warranty 3 years Electrolytic Capacitor swill exceed 7 years life based on operating at 25°C ambient temp., 115% to 155% of nominal output voltage, requires AC recycle to reset Short Circuit Protection Will shutdown upon an over temperature condition, auto-recovery mode	Input Current	3.7 A max at 115 VAC, 1.8 A max at 230 VAC			
Leakage Current Earth Leakage Current Patient Leakage Current 10/50 μA at 264 VAC, 60 Hz, NC 10/50 μA at 264 VAC, 60 Hz, NC/SFC Efficiency 990% typical No Load Input Power 1.0 W Input/Ground: 1500 VAC (1 MOPP) Input/Ground: 1500 VAC (1 MOPP) Output/Ground: 1500 VAC (1 MOPP) S kV Defibrillator Pulse Withstand* Output Maximum Power See "Ordering Information" section Ripple and Noise 1% of Vout on all models Load Regulation 2% Line Regulation 1% Total Regulation 5% Minimum Load Not required Capacitive Load 1000 μF Adjustment Range 45% (optional) Initial Set Point Tolerance 11% Overshoot Holdup Time (main output) 2ms min. Measured at 300W output from 100VAC, Vout reduces to 90% of original value before AC drop out. Reliability MTBF >500 khrs per Telcordia 332, Issue 6 at 110 VAC input, 25°C, full rated load Warranty 3 years Electrolytic Capacitor Lifetime All specified electrolytic capacitors will exceed 7 years life based on operating at 25°C ambient temp., 115 VAC/60 Hz and 230 VAC/50 Hz, 24 hrs/day, 365 days/year Protection Overvoltage Protection 115% to 155% of nominal output voltage, requires AC recycle to reset Short Circuit Protection Will shutdown upon an over temperature condition, auto-recovery mode	Inrush Current	40 A max, cold start at 264 VAC input			
Earth Leakage Current Patient Leakage Current (210/50 μA at 284 VAC, 60 Hz, NC (210/50 μA at 284 VAC, 60 Hz, NC/SFC Efficiency 990% typical No Load Input Power (1.0 W Input/Ground: 1500 VAC (1 MOPP) Input/Output: 4500 VAC (2 MOPP) Output/Ground: 1500 VAC (1 MOPP) S k V Defibrillator Pulse Withstand¹ Output Maximur Power See "Ordering Information" section Ripple and Noise 1% of Vout on all models Load Regulation 2% Line Regulation 1% Total Regulation 5% Minimum Load Not required Capacitive Load 1000 μF Adjustment Range 25% (optional) Initial Set Point Tolerance 11% Overshoot 3% overshoot at turn-on, <1% overshoot at turn-off, under all conditions Holdup Time (main output) 20ms min. Measured at 300W output from 100VAC, Vout reduces to 90% of original value before AC drop out. Reliability Protection Overvoltage Protection 115% to 155% of nominal output voltage, requires AC recycle to reset Short Circuit Protection Will shutdown upon an over temperature condition, auto-recovery mode	Input Fuses	6.3 A, 250 VAC fuse provided in both line & neutral			
No Load Input Power C1.0 W Input/Ground: 1500 VAC (1 MOPP) Input/Ground: 1500 VAC (2 MOPP) Output/Output: 4500 VAC (2 MOPP) Output/Ground: 1500 VAC (1 MOPP) S kV Defibrillator Pulse Withstand* See "Ordering Information" section Ripple and Noise 1% of Vout on all models 1% 1% 1% 1% 1% 1% 1% 1	Earth Leakage Current				
Input/Ground: 1500 VAC (1 MOPP) Input/Output: 4500 VAC (2 MOPP) Output/Output: 4500 VAC (2 MOPP) Output/Output: 4500 VAC (1 MOPP) S kV Defibrillator Pulse Withstand¹ Output Maximum Power See "Ordering Information" section Ripple and Noise 1% of Vout on all models Load Regulation 2% Line Regulation 1% Total Regulation 5% Minimum Load Not required Capacitive Load 1000 µF Adjustment Range 15% (optional) Initial Set Point Tolerance 11% Overshoot 3% overshoot at turn-on, <1% overshoot at turn-off, under all conditions Holdup Time (main output) 20mS min. Measured at 300W output from 100VAC, Vout reduces to 90% of original value before AC drop out. Reliability MTBF >500 khrs per Telcordia 332, Issue 6 at 110 VAC input, 25°C, full rated load Warranty 3 years Electrolytic Capacitor Lifetime 15% VAC/60 Hz, and 230 VAC/50 Hz, 24 hrs/day, 365 days/year Protection Overvlotage Protection 115% to 155% of nominal output voltage, requires AC recycle to reset Short Circuit Protection Will shutdown upon an over temperature condition, auto-recovery mode	Efficiency	>90% typical			
Input/Output: 4500 VAC (2 MOPP) Output/Ground: 1500 VAC (1 MOPP) 5 kV Defibrillator Pulse Withstand¹ Output Maximum Power See "Ordering Information" section Ripple and Noise 1% of Yout on all models Load Regulation 2% Line Regulation 1% Total Regulation 5% Minimum Load Not required Capacitive Load 1000 µF Adjustment Range 45% (optional) Initial Set Point Tolerance 11% Overshoot 3% overshoot at turn-on, <1% overshoot at turn-off, under all conditions Holdup Time (main output) 20mS min. Measured at 300W output from 100VAC, Vout reduces to 90% of original value before AC drop out. Reliability Warranty 3 years Electrolytic Capacitor Lifetime 115% to 155% of nominal output voltage, requires AC recycle to reset Short Circuit Protection Will shutdown upon an over temperature condition, auto-recovery mode	No Load Input Power	<1.0 W			
Maximum Power See "Ordering Information" section Ripple and Noise 1% of Yout on all models Load Regulation 2% Line Regulation 5% Minimum Load Not required Capacitive Load 1000 μF Adjustment Range ±5% (optional) Initial Set Point Tolerance ±1% Overshoot <3% overshoot at turn-on, <1% overshoot at turn-off, under all conditions	Isolation Voltage - CF Rated	Input/Output: 4500 VAC (2 MOPP) Output/Ground: 1500 VAC (1 MOPP)			
Ripple and Noise 1% of Vout on all models Load Regulation 2% Line Regulation 1% Total Regulation 5% Minimum Load Not required Capacitive Load 1000 µF Adjustment Range 25% (optional) Initial Set Point Tolerance 11% Overshoot <3% overshoot at turn-on, <1% overshoot at turn-off, under all conditions Holdup Time (main output) 20mS min. Measured at 300W output from 100VAC, Vout reduces to 90% of original value before AC drop out. Reliability MTBF >500 khrs per Telcordia 332, Issue 6 at 110 VAC input, 25°C, full rated load Warranty 3 years Electrolytic Capacitor Lifetime All specified electrolytic capacitors will exceed 7 years life based on operating at 25°C ambient temp., 15 VAC/60 Hz and 230 VAC/50 Hz, 24 hrs/day, 365 days/year Protection Overvoltage Protection 115% to 155% of nominal output voltage, requires AC recycle to reset Short Circuit Protection Will shutdown upon an over temperature condition, auto-recovery mode	Output				
Load Regulation 2% Line Regulation 1% Total Regulation 5% Minimum Load Not required Capacitive Load 1000 μF Adjustment Range ±5% (optional) Initial Set Point Tolerance ±1% Overshoot 3% overshoot at turn-on, <1% overshoot at turn-off, under all conditions Holdup Time (main output) 20mS min. Measured at 300W output from 100VAC, Vout reduces to 90% of original value before AC drop out. Reliability MTBF >500 khrs per Telcordia 332, Issue 6 at 110 VAC input, 25°C, full rated load Warranty 3 years Electrolytic Capacitor Lifetime All specified electrolytic capacitors will exceed 7 years life based on operating at 25°C ambient temp., 115 VAC/60 Hz and 230 VAC/50 Hz, 24 hrs/day, 365 days/year Protection Overvoltage Protection 115% to 155% of nominal output voltage, requires AC recycle to reset Short Circuit Protection Short across the output terminals will not cause damage to the unit, hiccup mode Thermal Protection Will shutdown upon an over temperature condition, auto-recovery mode	Maximum Power	See "Ordering Information" section			
Line Regulation 1% Total Regulation 5% Minimum Load Not required Capacitive Load 1000 μF Adjustment Range ±5% (optional) Initial Set Point Tolerance ±1% Overshoot <3% overshoot at turn-on, <1% overshoot at turn-off, under all conditions Holdup Time (main output) 20mS min. Measured at 300W output from 100VAC, Vout reduces to 90% of original value before AC drop out. Reliability MTBF >500 khrs per Telcordia 332, Issue 6 at 110 VAC input, 25°C, full rated load Warranty 3 years Electrolytic Capacitor Lifetime All specified electrolytic capacitors will exceed 7 years life based on operating at 25°C ambient temp., 115 VAC/60 Hz and 230 VAC/50 Hz, 24 hrs/day, 365 days/year Protection Overvoltage Protection 115% to 155% of nominal output voltage, requires AC recycle to reset Short Circuit Protection Short across the output terminals will not cause damage to the unit, hiccup mode Thermal Protection Will shutdown upon an over temperature condition, auto-recovery mode	Ripple and Noise	1% of Vout on all models			
Total Regulation 5% Minimum Load Not required Capacitive Load 1000 μF Adjustment Range ±5% (optional) Initial Set Point Tolerance ±1% Overshoot <3% overshoot at turn-on, <1% overshoot at turn-off, under all conditions Holdup Time (main output) 20mS min. Measured at 300W output from 100VAC, Vout reduces to 90% of original value before AC drop out. Reliability MTBF >500 khrs per Telcordia 332, Issue 6 at 110 VAC input, 25°C, full rated load Warranty 3 years Electrolytic Capacitor Lifetime All specified electrolytic capacitors will exceed 7 years life based on operating at 25°C ambient temp., 115 VAC/60 Hz and 230 VAC/50 Hz, 24 hrs/day, 365 days/year Protection Overvoltage Protection 115% to 155% of nominal output voltage, requires AC recycle to reset Short Circuit Protection Short across the output terminals will not cause damage to the unit, hiccup mode Thermal Protection Will shutdown upon an over temperature condition, auto-recovery mode	Load Regulation	2%			
Minimum Load Not required Capacitive Load 1000 μF Adjustment Range ±5% (optional) Initial Set Point Tolerance ±1% Overshoot 43% overshoot at turn-on, <1% overshoot at turn-off, under all conditions Holdup Time (main output) 20mS min. Measured at 300W output from 100VAC, Vout reduces to 90% of original value before AC drop out. Reliability MTBF >500 khrs per Telcordia 332, Issue 6 at 110 VAC input, 25°C, full rated load Warranty 3 years Electrolytic Capacitor Lifetime All specified electrolytic capacitors will exceed 7 years life based on operating at 25°C ambient temp., 115 VAC/60 Hz and 230 VAC/50 Hz, 24 hrs/day, 365 days/year Protection Overvoltage Protection 115% to 155% of nominal output voltage, requires AC recycle to reset Short Circuit Protection Short across the output terminals will not cause damage to the unit, hiccup mode Will shutdown upon an over temperature condition, auto-recovery mode	Line Regulation	1%			
Capacitive Load 1000 μF Adjustment Range ±5% (optional) Initial Set Point Tolerance ±1% Overshoot <3% overshoot at turn-on, <1% overshoot at turn-off, under all conditions Holdup Time (main output) 20mS min. Measured at 300W output from 100VAC, Vout reduces to 90% of original value before AC drop out. Reliability MTBF >500 khrs per Telcordia 332, Issue 6 at 110 VAC input, 25°C, full rated load Warranty 3 years Electrolytic Capacitor Lifetime All specified electrolytic capacitors will exceed 7 years life based on operating at 25°C ambient temp., 115 VAC/60 Hz and 230 VAC/50 Hz, 24 hrs/day, 365 days/year Protection Overvoltage Protection 115% to 155% of nominal output voltage, requires AC recycle to reset Short Circuit Protection Short across the output terminals will not cause damage to the unit, hiccup mode Thermal Protection Will shutdown upon an over temperature condition, auto-recovery mode	Total Regulation	5%			
Adjustment Range	Minimum Load	Not required			
Initial Set Point Tolerance ±1% Overshoot	Capacitive Load	1000 μF			
Overshoot <3% overshoot at turn-on, <1% overshoot at turn-off, under all conditions 20mS min. Measured at 300W output from 100VAC, Vout reduces to 90% of original value before AC drop out. Reliability MTBF	Adjustment Range	±5% (optional)			
Holdup Time (main output) 20mS min. Measured at 300W output from 100VAC, Vout reduces to 90% of original value before AC drop out. Reliability MTBF >500 khrs per Telcordia 332, Issue 6 at 110 VAC input, 25°C, full rated load Warranty 3 years Electrolytic Capacitor Lifetime All specified electrolytic capacitors will exceed 7 years life based on operating at 25°C ambient temp., 115 VAC/60 Hz and 230 VAC/50 Hz, 24 hrs/day, 365 days/year Protection Overvoltage Protection 115% to 155% of nominal output voltage, requires AC recycle to reset Short Circuit Protection Short across the output terminals will not cause damage to the unit, hiccup mode Thermal Protection Will shutdown upon an over temperature condition, auto-recovery mode	Initial Set Point Tolerance	±1%			
Reliability MTBF >500 khrs per Telcordia 332, Issue 6 at 110 VAC input, 25°C, full rated load Warranty 3 years Electrolytic Capacitor Lifetime All specified electrolytic capacitors will exceed 7 years life based on operating at 25°C ambient temp., 115 VAC/60 Hz and 230 VAC/50 Hz, 24 hrs/day, 365 days/year Protection Overvoltage Protection 115% to 155% of nominal output voltage, requires AC recycle to reset Short Circuit Protection Short across the output terminals will not cause damage to the unit, hiccup mode Thermal Protection Will shutdown upon an over temperature condition, auto-recovery mode	Overshoot	<3% overshoot at turn-on, <1% overshoot at turn-off, under all conditions			
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Protection Overvoltage Protection Short Circuit Protection Thermal Protection 115 VAC/60 Hz and 230 VAC/50 Hz, 24 hrs/day, 365 days/year 115% to 155% of nominal output voltage, requires AC recycle to reset Short Circuit Protection Will shutdown upon an over temperature condition, auto-recovery mode	Warranty	3 years			
Overvoltage Protection 115% to 155% of nominal output voltage, requires AC recycle to reset Short Circuit Protection Short across the output terminals will not cause damage to the unit, hiccup mode Thermal Protection Will shutdown upon an over temperature condition, auto-recovery mode	Electrolytic Capacitor Lifetime				
Short Circuit Protection Short across the output terminals will not cause damage to the unit, hiccup mode Will shutdown upon an over temperature condition, auto-recovery mode	Protection				
Thermal Protection Will shutdown upon an over temperature condition, auto-recovery mode	Overvoltage Protection	115% to 155% of nominal output voltage, requires AC recycle to reset			
	Short Circuit Protection	Short across the output terminals will not cause damage to the unit, hiccup mode			
Overload Protection 130% to 180% of rated output current value, hiccup mode	Thermal Protection	Will shutdown upon an over temperature condition, auto-recovery mode			
	Overload Protection	130% to 180% of rated output current value, hiccup mode			

Note 1: Meets the 5 kV difbrillation tests under clause 8.5.5 of IEC60601 for non-output parts. Refer to safety report for details.

SAFETY

UL UL60601-1-1, latest edition, complies with CF rated application requirements	
CSA CAN/CSA-C22.2 No. 60601-1, complies with CF rated application requirements	
IEC/EN (CB Report) IEC/EN60601-1-1, Ed. 3.2, complies with CF rated application requirements	



ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-20°C to +70°C			
Temperature Derating	Derate output power linearly from 50°C to 70°C, 50% load at 70°C			
Cooling	Airflow: ≥300LFM; convection cooled			
Storage Temperature	-40°C to +85°C			
Altitude	Operating: -500 to 5,000 m. Non-operating: -500 to 12,192 m			
Relative Humidity	5% to 95%, non-condensing			
Vibration	Random Vibration: Operating: 0.003 g/Hz, 1.5 g overall, 3 axes, 10 min/axis, 5 to 500 Hz Non-operating: Random waveform, 3 mins/axis, 3 axes and sine waveform, Vib. frequency/acceleration: 10 Hz to 500 Hz/1 g, sweep rate of 1 octave/minutes, vibration time of 10 sweeps/axis, 3 axes, per IEC60068-2 Transportation vibration: Random vib. per MIL-STD-810E, Method 514.4, Cat. 1, Figure 514.4-1, 1hr in each of three axes.			
Shock	Operating: Half-sine, 20 gpk, 10 ms, 3 axes, 6 shocks total Non-operating: Half-sine waveform, impact acceleration of 50 g, pulse duration of 6 ms Number of shocks: 3 for each of the three axes			
Audible Noise	<20 dbA			

EMI/EMC COMPLIANCE

Conducted Emissions	EN55011/32: Class B, CISPR11/15/32: Class B, FCC Part 15.107, Class B Measured at 10%, 50%, and 100% load steps; 3db margin typ, at 120 VAC and 230 VAC			
Radiated Emissions	EN55011/32: Class B, CISPR11/32: Class B, FCC Part 15.107, Class B Measured at 10%, 50%, and 100% load steps; at 120 VAC and 230 VAC (added ferrite core may be requi			
Harmonic Current Emissions	EN61000-3-2, Class A at 230 VAC, 100% load			
Voltage Fluctuations & Flicker	IEC61000-3-3			
Electro Static Discharge Immunity	IEC61000-4-2, Level 4: ±8 kV contact, ±15 kV air, Criteria A, IEC60601-1-2, 4th Edition, Table 4			
Radiated RF EM Fields Susceptibility	EN61000-4-3, 10 V/m, 80 MHz to 2.7 GHz, 80% AM at 1 kHz IEC60601-1-2, 4th Edition, Table 4			
Electrical Fast Transients/Bursts	IEC61000-4-4, Level 4, ±4 kV, 100 kHz rep rate, 40 A, Criteria A, IEC60601-1-2, 4th Edition, Table 5			
Surges Line to Line (DM) and Line to Ground (CM)	IEC61000-4-5, Level 4, ±2 kV DM, ±4 kV CM, Criteria A Surpasses IEC60601-1-2, 4th Edition requirements			
Conducted Disturbances Induced by RF Fields	IEC61000-4-6, 3 V/m – Level 4, 0.15 MHz to 80 MHz; and 12 V/m in ISM and amateur radio bands between 0.15 MHz and 80 MHz, 80% AM at 1 kHz IEC60601-1-2, 4th Edition, Table 5			
Rated Power Frequency Magnetic Fields Test	IEC1000-4-8, Level 4: 30 A/m, 50 Hz/60 Hz IEC60601-1-2, 4th Edition, Table 4			
Voltage Dips	IEC/EN61000-4-11:100% dip for 10 ms, at 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315°, criteria A100% dip for 20 ms, 0°, criteria A (criteria A at 60% output load)100% dip for 5000 ms (250/300 cycles), criteria B60% dip for 100 ms, criteria B30% dip for 500 ms, criteria A IEC60601-1-2, 4th Edition, Table 5			

Notes:

- 1. Performance criteria are based on EN55024. According to the standards, performance criteria are decoded as following:
- A. Normal performance during and after the test
- B. Temporary degradation, self-recoverable
- C. Temporary degradation, operator intervention required to recover the operation
- D. Permanent damage
- 2. Class B Radiated Emissions requires application of external core on the output cabling, Wurth 74270096 or equivalent. Meets Class A without external core.



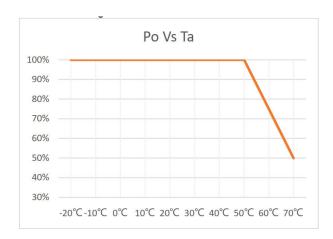
ORDERING INFORMATION

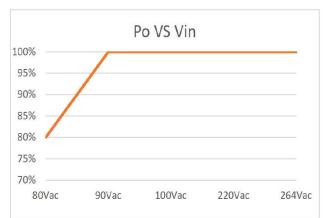
2	Output Voltage	Output Current (fan)¹	Output Power (fan)¹	Output Current (convection/ conduction)	Output Power (convection/ conduction)	Terminations	
Model Number ²						Input	Output
NCF425S12K	12 V	30.0 A	365 W	19.58 A	240 W	5 pin (pins 2, 4 removed), 0.156 Ctr Connector	10 pin Molex Type Connector
NCF425S24K	24 V	17.5 A	425 W	11.25 A	275 W		
NCF425S48K	48 V	8.75 A	425 W	5.63 A	275 W		

Note 1: 300 LFM airflow is required.

Note 2: Contact Advanced Energy for availability of other output voltages.

DERATING SPECIFICATIONS





UNIT PACKAGING REQUIREMENTS

Inserted Instructions	Instruction sheet to be provided with all units packaged in individual unit box if used.			
Individual Unit Packing	its can be packed in egg crate type cartons for production quantities. Individual product shipments include a dividual unit box.			
Master Carton Shipping Box	40 units per master carton. Unit packaged into carton must be protected such that it will sustain 1.4 m drop test onto hard surface. Only anti-static packing material may be used inside the box. Exterior box sealing tape is anti-static type.			
Individual Carton Packing Box (when used)	Individual carton is labelled with RoHS sticker and individual label showing unit serial number, bar code, manufacturing date, bar code, and manufacturing part number, bar code, country of origin.			



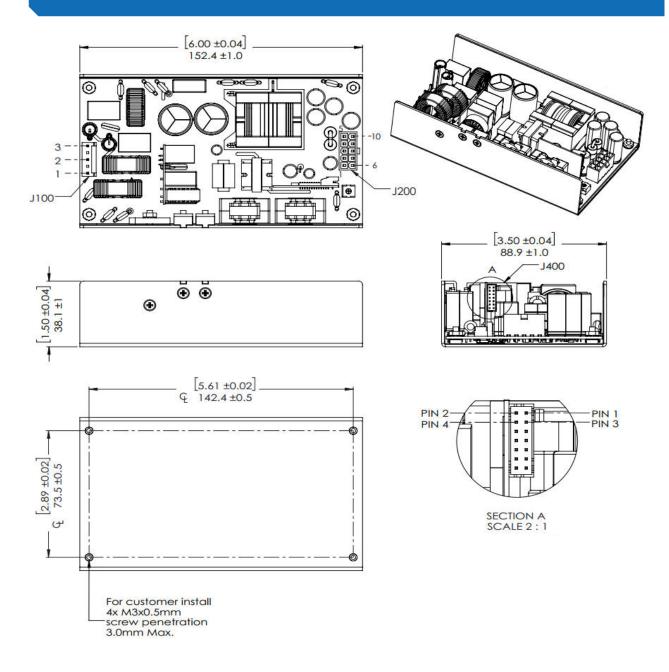
PIN ASSIGNMENTS

Connector	Pin #	Assignment	Mating Connector		
	1	GroundAC Line			
J100 (Input Connector) 5 Pin Header (2 Pins Removed)	2	AC Line	AMP P/N 640250-5. Plns: 640252-1		
	3	AC Neutral			
	1	+Vout			
	2	+Vout			
	3	+Vout			
	4	RTN			
J200 (DC Output Connector)	5	RTN	CviLux: CP-01110030		
10 Pin Header	6	+Vout	Pins: CP-01100106-HC or Molex 39-01-2105		
	7	+Vout	01 Molex 66 61 2166		
	8	RTN			
	9	RTN			
	10	RTN			
	1	RTN			
	2	NA			
	3	S+ ¹			
	4	RTN			
	5	NA			
	6	PWR_GOOD			
J400 (Signal Connector)	7	NA	Landwin: 2050S1400, Pins: 2053T021N or		
14 Pin Header	8	INHIBIT ²	JST PHDR-14VS		
	9	NA			
	10	NA			
	11	RTN			
	12	NA			
	13	5VSB			
	14	5VSB			

Note 1: S+: remote sense function of output voltage.

Note 2: INHIBIT: Logic "High" or "Open" enables and logic "Low" disables main output.

MECHANICAL DRAWING



Notes:

- 1. All dimensions in mm [inches].
- 2. Dimensions: W: 3.5" x L: 6" x H: 1.5".
- 3. Unit weight: 490 g.





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ABOUT ADVANCED ENERGY

Advanced Energy (AE) has devoted more than four decades to perfecting power for its global customers. AE designs and manufactures highly engineered, precision power conversion, measurement and control solutions for mission-critical applications and processes.

Our products enable customer innovation in complex applications for a wide range of industries including semiconductor equipment, industrial, manufacturing, telecommunications, data center computing, and medical. With deep applications know-how and responsive service and support across the globe, we build collaborative partnerships to meet rapid technological developments, propel growth for our customers, and innovate the future of power.

PRECISION | POWER | PERFORMANCE | TRUST

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