



Electric Vehicle Power Supplies

Standard, Modified & Custom Solutions

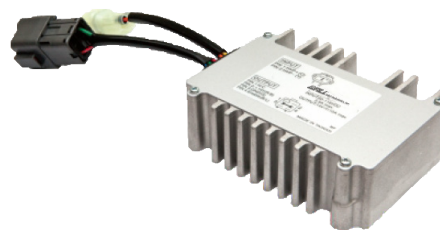
WALL[®]
Wall Industries, Inc.

Electric Vehicle Power Supplies

DCVK168

168 Watts

- Wide Operating Voltage Range of 60-118VDC
- C.C. Mode & C.V. Mode
- Built-In ORing Diode
- All Units Pass Burn-In Test at Full Load
- Output Short Circuit, Over Voltage, Over Load, and Over Temperature Protection
- Output Reverse Polarity Protection
- IP67 Waterproof Rating
- Protection Class II

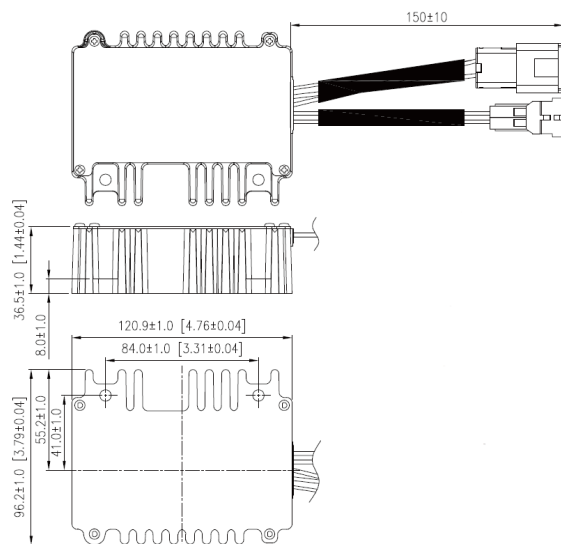


4.76in x 3.79in x 1.44in

[Visit DCVK168 Series Page](#)

Input Voltage Range.....	60~118VAC	Operating Temperature.....	-20 to +70°C
Input Current.....	@60VDC.....3.5A	Storage Temperature.....	-40 to +85°C
	@118VDC.....3.1A	Operating Humidity.....	0 to 95%RH
Line Regulation.....	0.5% to 1%	Storage Humidity.....	0 to 95%RH
Load Regulation.....	5%	MTBF.....	100,000 Hours
Total Regulation.....	±5%	Dielectric Withstand Voltage.....	1500VAC
Ripple & Noise.....	200mVp-p	Cooling.....	Free Air Convection
Temperature Coefficient.....	±0.04%/°C	Waterproof Rating.....	IP67
Short Circuit Protection.....	Latch	EMC.....	Meets UN R10
OVP, OLP, OTP.....	Yes	Weight.....	1.68lbs(0.76kg)

Model Number	Input Voltage Range	Setting Voltage Range	Current I _{max}	Enable		Ripple & Noise	Output Power
				DC Voltage	I _{min}		
PSEOCH05-33S	60-118VDC	14V _o	12A	5~16VDC	1.25mA	200mVp-p	168W



Input	
Pin1: HVP+(O)	PIN2:HVP-(Y)

Output			
Pin1: N/C	PIN2: +14V (R/B)	PIN3: GND (G)	PIN4: Enable (B/L)

Electric Vehicle Power Supplies

PSEV3600

3600 Watts

- AC Input Voltage of 220VAC
- High Efficiency
- -20°C ~ 45°C Operating Temperature
- Short Circuit, Thermal, Reverse Connection, and Battery Broken Protection
- RoHS Compliant
- UL, CE, and FCC Certifications



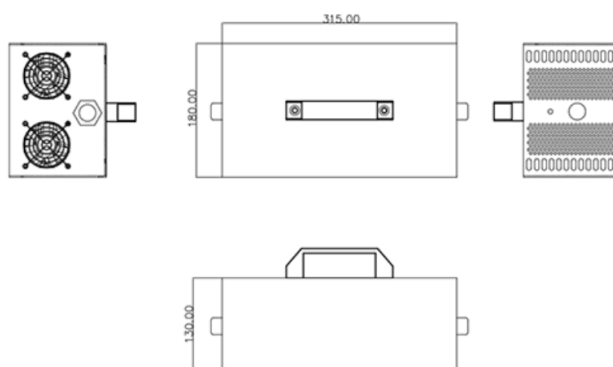
12.4in x 7.08in x 5.12in

[Visit PSEV3600 Series Page](#)

Input Voltage Range.....220V
 Input Frequency.....45 to 65Hz
 PFC.....≥0.95
 Short Circuit Protection.....Yes
 Thermal Self Protection.....Yes
 Reverse Connection Protection.....Yes

Battery Broken Protection.....Yes
 Operating Temperature.....-20 to +45°C
 Storage Temperature.....-40 to +85°C
 Efficiency.....≥90%
 Weight.....19.84oz(9kg)
 Safety.....UL,CE,FCC,RoHS

Model Number	Rated Input Voltage	Battery Standard Voltage	Maximum Charging Voltage	Maximum Charging Current	Output Power
PSEV3600-24S1	220VAC	24V	29.2V	120A	3600W
PSEV3600-36S1		36V	42V	100A	
PSEV3600-48S1		48V	54.6V	70A	
PSEV3600-60S1		60V	71.4V	60A	
PSEV3600-72S1		72V	84V	50A	
PSEV3600-24S2	220VAC	24V	29.4V	120A	3600W
PSEV3600-36S2		36V	44.1V	100A	
PSEV3600-48S2		48V	58.8V	70A	
PSEV3600-60S2		60V	73.5V	60A	
PSEV3600-72S2		72V	88.2V	50A	



Electric Vehicle Power Supplies

PSEOCH05

Up to 5.04 Watts

- Universal Input Range of 90-305VAC
- I/O Isolation 4000VAC
- EMC Compliant without External Components
- Compact Size
- Short Circuit, Over Voltage, and Over Power Protection
- Meets IEC/EN 60335-1, UL/IEC/EN 62368-1, IEC/EN 60950, and IEC/EN 61558-2-16 Safety Approvals



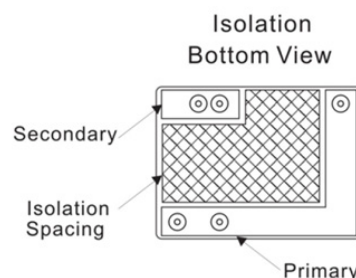
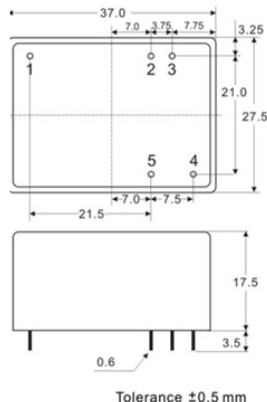
1.46in x 1.08in x 0.69in

[Visit PSEOCH05 Series Page](#)

Input Voltage Range..90~305VAC (120~430VDC)
90~264VAC (120~370VDC)
Input Frequency.....47 to 440Hz
Input Current.....90mA to 150mA
Inrush Current.....30A to 60A
Line Regulation.....±0.1 to ±0.2%
Load Regulation.....±0.5 to ±1%
Ripple & Noise.....100 to 200mVp-p
Hold-Up Time.....15ms
Temperature Coefficient.....±0.02%/°C

Short Circuit Protection.....Automatic Recovery
Over Power Protection.....≥115% Io
Over Voltage Protection.....Zener Diode Clamp
Operating Temperature.....-40 to +70°C
Storage Temperature.....-40 to +85°C
Humidity.....95%RH
MTBF.....450,000 Hours
Isolation.....4000VAC from Input - Output
Case Material.....Plastic Resin
Weight.....0.85oz(24g)

Model Number	Input Voltage Range	Output Voltage	Output Current	Max. Ripple & Noise	Max. Capacitive Load	Efficiency	Output Power
PSEOCH05-33S	90~305VAC (120~430VDC)	3.3V	1515mA	<100mVp-p	3500μF	73%	5W
PSEOCH05-05S		5V	1000mA	<100mVp-p	2500μF	77%	
PSEOCH05-12S	90~264VAC (120~370VDC)	12V	420mA	<150mVp-p	470μF	81%	5.04W
PSEOCH05-24S		24V	210mA	<200mVp-p	150μF	83%	



PIN#	Function
1	No Connection
2	+Vo
3	GND
4	AC IN (L)
5	AC IN (N)

Electric Vehicle Power Supplies

PSAOD10

10 Watts

- Universal Input Voltage Range of 90~264VAC or 120~370VDC
- Switching Power Module for PCB Mount
- Low Ripple & Noise
- Isolation Class II
- Short Circuit, Over Voltage, and Over Power Protection
- Fully Encapsulated Plastic Case
- High Efficiency
- CE, CB, and UL Safety Approvals



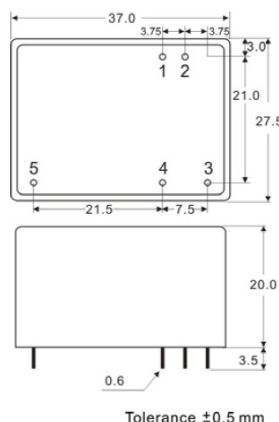
1.46in x 1.08in x 0.79in

[Visit PSAOD10 Series Page](#)

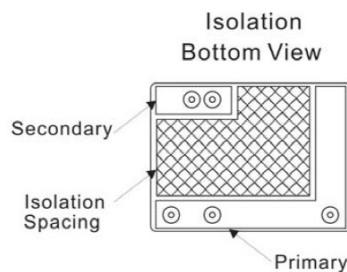
Input Voltage Range.....90~264VAC
(120~370VDC)
Input Frequency.....47 to 440Hz
Input Current.....140mA to 230mA
Inrush Current.....30A to 60A
Line Regulation.....±0.2%
Load Regulation.....±0.5 to ±1%
Ripple & Noise.....See Table
Hold-Up Time.....30ms
Temperature Coefficient.....±0.02%/°C

Short Circuit Protection.....Automatic Recovery
Over Power Protection.....Automatic Recovery
Over Voltage Protection.....Zener Diode Clamp
Operating Temperature.....-40 to +70°C
Storage Temperature.....-40 to +85°C
Humidity.....95%RH
MTBF.....450,000 Hours
Isolation.....3000VAC from Input - Output
Case Material.....Plastic Resin
Weight.....1.23oz(35g)

Model Number	Input Voltage Range	Output Voltage	Output Current	Ripple & Noise	Max. Capacitive Load	Efficiency	Output Power
PSAOD10-5S	90~264VAC (120~370VDC)	5VDC	2000mA	<150mVp-p	3,500uF	80%	10W
PSAOD10-12S		12VDC	833mA	<150mVp-p	700uF	84%	
PSAOD10-15S		15VDC	667mA	<160mVp-p	390uF	85%	
PSAOD10-24S		24VDC	417mA	1% Vout	180uF	85%	



Tolerance ±0.5 mm



PIN#	Function
1	+Vo
2	GND
3	AC IN (L)
4	AC IN (N)
5	No Connection

Electric Vehicle Power Supplies

PSAEK3000HV-OR

3000 Watts

- Constant Current Limit
- Global Control via RS232/RS485
- Power OK Signal & Remote ON/OFF Function
- Remote Setting Multiple PSU via RS232, RS485 & I2C
- Programmable Output Voltage (0~105%)
- Programmable Output Current (0~105%)
- Single Outputs Ranging from 150VDC to 400VDC
- Selectable +5V/0.5A or +9V/0.3A Auxiliary Output
- Forced Current Sharing at Parallel Operation
- Built-In Active PFC Function and ORing Diode
- Built-In I2C and RS485 Communication Interface
- EN 62368-1, UL 62368-1 Safety Approvals



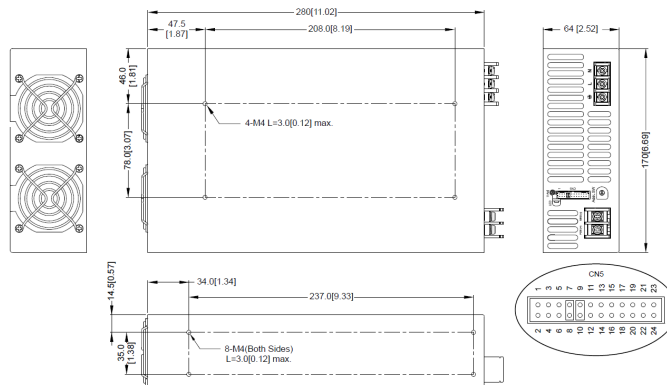
11.02in x 6.69in x 2.52in

[Visit PSAEK3000HV-OR Series Page](#)

Input Voltage Range.....90~264VAC
(127~370VDC)
Input Frequency.....47 to 63Hz
Input Current.....14.5A to 19.7mA
Inrush Current.....33A to 65A
Ripple & Noise.....1500 to 4000mVp-p
Hold-Up Time.....14ms
Setup Time.....1100ms
Rise Time.....350ms
Temperature Coefficient.....±0.02%/°C

Short Circuit Protection.....Yes
Over Voltage Protection.....Yes
Over Load Protection.....105% Rated Power
Over Temp. Protection.....85±5°C
Operating Temperature.....-20 to +60°C
Storage Temperature.....-40 to +85°C
Leakage Current.....3.5mA
Isolation Resistance.....100MΩ
Cooling.....Load and Temp. Control Fan
Weight.....7.28lbs(3.3kg)

Model Number	Input Voltage Range	Output Voltage	Output Current	Ripple & Noise	Max. Efficiency	Output Power
PSAEK-3000HVOR-150	90~264 VAC (127~370 VDC)	150VDC	20A	1500mVp-p	91%	3000W
PSAEK-3000HVOR-200		200VDC	15A	2000mVp-p	91%	
PSAEK-3000HVOR-250		250VDC	12A	2500mVp-p	91%	
PSAEK-3000HVOR-300		300VDC	10A	3000mVp-p	92%	
PSAEK-3000HVOR-400		400VDC	7.5A	4000mVp-p	92%	



Electric Vehicle Power Supplies

DCCE24S2428-1000

28 Watts

- Bidirectional DC/DC Converter
- High Efficiency
- Constant Voltage and Constant Current Mode
- Continuous Short Circuit Protection
- 3KVDC Isolation
- RoHS Compliant
- EN62368-1 Safety Approval



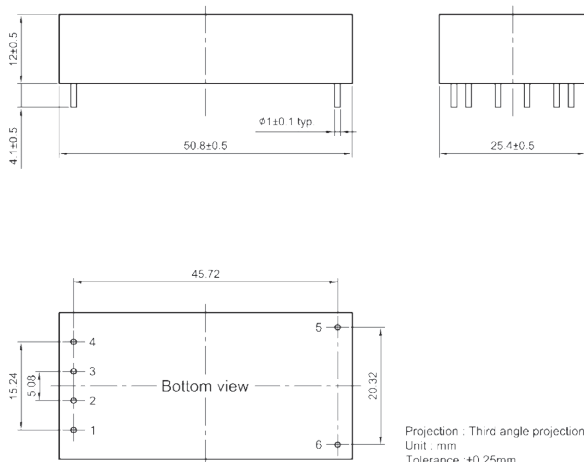
2in x 1in x 0.47in

[Visit DCCE24S2428-1000 Series Page](#)

Input Voltage Range.....15~36VDC
Start-Up Voltage.....9VDC
Disable Static Current.....2mA to 5mA
Input Filter.....Pi Type
Voltage Accuracy.....±5%
Current Accuracy.....±10%
Operating Frequency.....400kHz
Ripple&Noise.....200mVp-p
Start-Up Time.....150ms max.
Temperature Coefficient.....0.05%/°C

Short Circuit Protection.....Yes
Operating Temperature.....-40 to +85°C
Storage Temperature.....-40 to +105°C
Relative Humidity.....5 to 95%RH
Vibration.....MIL-STD-202G
Isolation Voltage.....3kVDC from Input - Output
Isolation Resistance.....1000MΩ
Isolation Capacitance.....500pF
Case Material.....Plastic Case
Weight.....0.88oz (25g)

Model Number	Direction	Input Voltage Range	CV Output Voltage	CC Output Current	Ripple & Noise	Efficiency	Output Power
DCCE24S2428-1000	Forward	28VDC (15-36VDC)	24VDC	1000mA	200mVp-p	86%	28W
	Reverse	24VDC (15-36VDC)	28VDC	1000mA			



PIN#	Function
1	CD
2	EN
3	GND
4	+Vin
5	+Vout
6	-Vout

What We Offer

R&D

- P-Spice Simulation Software, PADS, AUTOCAD, and Solidworks
- Environmental Chambers for Life and Temperature Testing
- HALT/HASS Testing Capabilities with partners
- Limited In-House EMI and EMC Testing Capabilities
- Engineering Team Provides Analog, Digital, Mechanical, and Packaging Expertise to Assist with Design Needs

Quality Assurance

- In-Process Inspection
- ISO9001 Quality System In Place
- Certifications and Standards Include ISO, IPC, HALT, SPC, UL, EN
- 100% Final Electrical Hi-Pot Testing
- Employees certified and trained to PC-610 Workmanship Standards
- Extensive Burn-In Capability, Standard, or Customer Specific
- 100% Final Electric and Hi-Pot Testing

About Wall

- Incorporated in 1960
- ISO Registered with UL, file #10002324
- Supplier of the Year Awards from World Class Customers
- One of the World Trade Magazine's top "100 Fast-Growing High Tech Manufacturers"
- Representative Network through North America for Convenient Assistance
- In-House Design Engineering Team

Certifications



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