



Volta Power Systems

voltapowersystems.com

616.226.4222

# VOLTA POWER SYSTEMS CONVERTER



## KEY FEATURES

- Two chassis sizes, “Large” or “Cube”
- Optional LCD remote display
- Thermally controlled cooling fan
- Provides automatic electronic short circuit/overload protection, and automatic over-temperature shutdown
- Local status LED provides converter troubleshooting information at a glance
- Low battery protection automatically shuts down the converter at 47.0 Vdc with inrush delay.
- High surge rating for large motor loads
- Rugged design for RV/Mobile environments
- Wide operating temperature range
- Provides parallel and/or redundant operation for up to three units

## SPECIFICATIONS

Converter	Z5104200-0121250	Z5107401-0122201	Z5107101-0241101
Chassis	Cube	Large	Large
Input Voltage	47.0 -58.2 Vdc, 51 Vdc Nominal	47.0 -58.2 Vdc, 51 Vdc Nominal	47.0 -58.2 Vdc, 51 Vdc Nominal
Surge Voltage	Up to 60Vdc	Up to 60Vdc	Up to 60Vdc
Input Current (max.)	43 A	80 Adc	80 Adc
Output Voltage	11.5-14.4 Vdc	11.5-14.4 Vdc	23.0-28.8 Vdc
Output Current Continuous	125 Adc	220 Adc	110 Adc
Peak Power	3000 W	5500 W	5500 W
Peak Output	250 Adc	440 Adc	220 Adc
Efficiency	Up to 90%	Up to 90%	Up to 89%
Operating Temperature	-20C to 65C (0F to 149F)	-20C to 65C (0F to 149F)	-20C to 65C (0F to 149F)
Weight (lbs.)	42	68	68
Dimensions in. (L x W x H)	13.4x14.5x5.7	15.3x17.1x8	15.3x17.1x8



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## VOLTA POWER SYSTEMS

# 58V TO 12V DC-DC CONVERTER

PED-14P40-10-R1



### MOUNTING

Can be mounted in any orientation

### COOLING

Variable speed dual-fan configuration

### CHARGE ENABLE

Enabled via dry contacts

### UNIT PROTECTION

Includes Over Temperature, Over Voltage, and Over Current protection

### LED INDICATOR

Provides troubleshooting information at a glance

## MECHANICAL SPECIFICATIONS

Dimensions (l x w x h)	9.4" x 5" x 2.2"
Chassis material	Aluminum
Chassis finish	Black anodized
Clearance	12 inches all sides
Mounting	#6 screws at four locations
Output cable	10AWG - 2C (red+, black-)
Input cable	12AWG - 2C (red+, black-)
Weight	6lb
Fan noise during full speed operation	< 55dBA, variable speed

## DC INPUT SERIES SPECIFICATIONS

DC input voltage range	45VDC - 62VDC
Input DC amps (max)	15A, measured at 45VDC / output = 14.4V @ 40 amps (580 watts)
DC input configuration	DC input: DC +, DC -, (Chassis ground optional)
Storage temperature	-40° C to +80° C (-40° F to 176° F)
Operating temperature	-20° C to +60° C (-4° F to 140° F) at maximum output over entire input voltage range