



## Description

Powerland's "Marble" series 500W isolated DC/DC is a ruggedized converter suitable for electric vehicle, marine, industrial and other applications which draw power from a bank of batteries or other high voltage DC power source that experiences high output surge current need. This series is designed with compact size, high efficiency and high reliability. It offers solid and safe power conversions to supply accessories, lights, and other equipment on electrical bike, electrical motorcycle and other DC/DC applications.



## Applications

- E-bike
- E-motorcycle
- Other DC/DC systems

## Features

- High Efficiency: Up to 94%
- All-Around Protections: UVLO, OVP, OCP, SCP, OTP
- Isolated Input / Output Design
- Working Case Temperature: 40~85°C
- On/Off Enable Control
- Very Low Quiescent Current (Less Than 30uA)
- Supports Parallel Operation
- IP65 Ingress Grade

# Specifications

Model	PLD500- EVDG13-13	PLD500- EVDG13-24	PLD500- EVDG11-13	PLD500- EVDG12-14	PLD500- EVDG03-27
GWP Model	EVD-48-500-13	\	EVD-80-500-13	\	\
Output Voltage	13.5V	24V	13.5V	14.2V	27.5V
Output Current	38A	20A	38A	36A	18.5A
Output Power	500W				
Input Voltage	30~65V		50~126V		50~130V
Efficiency	93%				
Protections	UVLO, APT,OVP,OTP,OCP,SCP				
Quiescent Current	<30uA				
Ingress Protection	IP67				
Working Temperature	-40~85°C				
Cooling	Natural Cooling with Plate				
Max. Case Temperature	85°C				
EMI	EN55022 Class A, EN55032 Class A				
Isolation	Primary to Secondary: 1500Vac/10mA max./60s Primary to Earth: 1500Vac/10mA max./60s Secondary to Earth: 500Vac/10mA max./60s				
Dimensions (LxWxH)	190x76x45mm				
Weight	1.2kg				

\* Unless otherwise noted, the data are based on 25°C ambient temperature, 96V input voltage and full load

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Model	PLD500- EVDG13-13W	PLD500- EVDG13-24W	PLD500- EVDG11-13W	PLD500- EVDG12-14W	PLD500- EVDG03-27W
GWP Model	EVD-48-500-13F	\	EVD-80-500-13F	EVD-80-500-14FP- IP67	EVD-80-500-27FP
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