



Description

Powerland's "Caesars" 230~400W series is an unprecedented and fully integrated DC/DC for ultra-compact and rugged applications. Designed with isolated input/output, this series DC/DC offers solid and safe power conversion.

High power systems can be easily built by paralleling the DC/DC module. This series is featured with ultra-high efficiency, low profile, ultra-high power density and wide operation ambient temperature.



Applications

- E-motorcycle
- Robot
- Hi-reliable, hi-efficiency and small size applications

Features

- Comply with EN60950 and EN62368
- Power Processing Unit (PPU™) with Intelligent Power Conversion Technology Embedded
- Easy multiple modules in parallel for power scalability and redundancy
- Input Voltage: 100~400Vdc
- Output Power: 230~400W
- Fan-less Silent Operation, Ultra High Reliability
- Isolated Input/ Output design
- Power Boost with Additional Heat Sink
- Ultra High Efficiency: $\geq 95.5\%$ @ 220Vac
- Ultra High Power Density: 27W/inch³
- All-Around Protections: UVLO, OVP, OCP, SCP, OTP
- Wide Working Temperature: -40~55°C

Specifications

Model	PLD360-PDD050	PLD360-PDD120	PLD360-PDD150	PLD360-PDD200	PLD360-PDD240	PLD360-PDD280	PLD360-PDD360	PLD360-PDD480
Output Voltage	5V	12V	15V	20V	24V	28V	36V	48V
Max. Output Current	45A	21.5A	17.3A	16A	13.3A	11.4A	8.9A	7.5A
Voltage Accuracy	±3%							
Output Power	230W @ 180~264Vac, 200~400Vdc	260W @ 180~264Vac, 200~400Vdc		320W @ 180~264Vac, 200~400Vdc			360W @ 180~264Vac, 200~400Vdc	
	168W @ 90~179Vac, 100~199Vdc	180W @ 90~179Vac, 100~199Vdc		220W @ 90~179Vac, 100~199Vdc			240W @ 90~179Vac, 100~199Vdc	
Output Power with Additional Heat Sink (case temperature less than 90°C)	260W @ 180~264Vac, 200~400Vdc	290W @ 180~264Vac, 200~400Vdc		360W @ 180~264Vac, 200~400Vdc			400W @ 180~264Vac, 200~400Vdc	
	190W @ 90~179Vac, 100~199Vdc	200W @ 90~179Vac, 100~199Vdc		250W @ 90~179Vac, 100~199Vdc			270W @ 90~179Vac, 100~199Vdc	
Input Voltage	90~264Vac, 100~400Vdc							
Input Frequency	45~65Hz @ AC input							
Power Factor	≥0.95 @ 220Vac, Full-Load							
Efficiency	93%	94%		95%			95.5%	
Protections	UVLO, OVP, OCP, SCP, OTP							
Working Temperature	-40°C~85°C							
Cooling	Natural Cooling							
Max. Case Temperature	85°C							
EMI	EN55032 Class A							
Surge Protection	1kV/2kV							
Isolation	Primary to Secondary: 3000Vac/10mA max./60s							
Dimensions (LxWxH)	182 x 48.6 x 27.5 mm (Model with Suffix "-A") 93 x 98 x 27.5 mm (Model with Suffix "-B")							
Weight	540g 660g(With Heat Sink)							