

CPC 1500B-48

DD converter



DC to DC converter, converting between the voltage level of battery systems to the voltage requirement of equipment. The converter family provides options for converting -48V to $+24\text{V}$ and $+24\text{V}$ to -48V . The modular format enables easy integration into the standard shelf solutions of existing DC power systems



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GOAOEO-01-ZL

INPUT

Voltage (nominal)	27V _{DC}
Voltage (range)	19 - 30V _{DC}
Lightening Protection	EN 61000-4-5
Maximum Input Current	76 A
EMI (conducted)	EN 55022, class A FCC 15, class A

OUTPUT

Voltage (default)	54V _{DC}
Voltage (range)	48 - 56V _{DC}
Maximum Output Current	29A
Maximum Power @ nominal Input	1550W
Power Density	18.03W/in ³
Peak Efficiency	94.0%
Load Regulation	< ± 250mV
Ripple	≤ 100mV
Current Sharing	≤ 5% of I _{out-nom} @ 50 ~ 100% load condition
Dynamic Load Step Response	Overshoot ≤ ± 1.5V, Settling time <10ms
Lightening Protection	EN 61000-4-5
EMI (conducted)	EN 55022, class A FCC 15, class A

USER INTERFACE

Alarm and Signaling	CANbus to System Controller		
Indications	OK	Green/Red	Normal Operation/Rectifier Shut Down
	COM	Green	Communication Status
	LD	Yellow	Load Status
	STA	Red	OVP; OTP; Fan Failure

MECHANICAL

Dimensions (W x H x D)	84.5 x 40.0 x 403.3mm (3.32 x 1.57 x 15.87in)
Weight	1.8kg (3.96lb)

ENVIRONMENTAL

Operating Temperature	-40 to +75 °C (-40 to +167 °F); De-rating above 65°C (+149 °F)
Storage Temperature	-25 to +55 °C (-13 to +131 °F)
Altitude	-80 to +4000m
Related Humidity	5 – 95 % RH non-condensing
Acoustic Noise	≤ 52dBA
Cooling	Fan cooled

STANDARDS

Safety	Passes CE, UL cUL certifications; Complies with IEC/EN/UL60950-1
EMC	EN 55022 Class A EN 300 386
Environment	RoHS
MTBF	300k hours @ 25 °C (+77 °F)

* All specifications are subject to change without prior notice.

** Loadsharing = (IN-IAVG)/IRATE*100, [%], (I_N = The each channel current, [A]; I_{AVG} = The average current of each RRHx (I_{RRHx} / 2), [A]; I_{RATE} = The rating current of each modules, [A])

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