

CyberCogs CC-CCU100 Combined Charging unit

HARDWARE SPECIFICATIONS

• Dimensions: 325w x 211d x 124h (mm)

• OBC input:

85 - 265 VAC

50-60 Hz

•OBC output:

11Kwatts

350 - 425VDC

32Amps

>95% efficient

•OBC output (inverter mode):

6.6Kwatts

120/240 VAC (Configurable)

50/60 Hz (Configurable)

•DC/DC input: 250-425 VDC (nominal 350V)

•DC/DC output:

2.5Kwatts (Max 3.0Kwatts)

12Volts (6-16Volts)

208Amps (Max 250 Amps)

>95% efficient

• PDU input:

425VDC

75Kwatts (150Kwatts for 10 sec)

• PDU outputs:

FDU output: 75Kwatts (150Kwatts for 10 sec) with con-

tactor and precharge

RDU output: 75Kwatts (150Kwatts for 10 sec)

HVAC compressor output: 6Kwatts **PCT1 and PTC2 outputs**: 7.5Kwatts

HARDWARE SPECIFICATIONS

• EV controller communication:

2 CAN FD Ports

GB/T for AC/DC PLC (Power Line Communication)

•EV controller I/O:

Discrete inputs

Analog inputs, 12 bit resolution

Discrete Outputs:

H-Bridge Latch Motor Drv (12V, 3 Amps)

Low Side Drive (LSD) up to 3 Amps

PWM outputs

• Processor: (Lock step) Cortex M7 at 240Mhz with FPU and

DSP

• Memory:

4 Mbytes flash with ECC

512Mbytes of RAM with ECC

• Environmental:

Operating temperature: -40 to 95 deg. C

Storage temperature: -40 to 100 deg. C

• Package:

Sealed Aluminum package with heatsink top

IP67 Rating

• Mounting:

4 M6 or 1/4-20 screws

Horizontal and Vertical Mounting

•Cooling:

Passive Conductive Heatsinking





CyberCogs CC-CCU100 Combined Charging unit (continued)

HARDWARE SPECIFICATIONS

• Input Protection:

Surge on input and BMS

Overvoltage

Inrush limiting

• Output Protection:

Short circuit protection

Over temperature protections

Accessible fuse on PTC and HVAC outputs

Serviceable fusing on Motor Outputs

• Connectors:

AC input/output connector: HVPT3A25

BMS input/output connector: PL082X-301-10D8

EV CC CAN/IO/Solenoid connector: 770669-1

(2) PTC connectors: Molex 194360214

HVAC connector: Molex 194360214

FDU connector: HVPT2B70

RDU connector: HVPT2B70

12Volt connector: HVPT2A70

(Optional AC inverter out) HD10-3-96P

• Agency Certifications:

EMI/RFI standard: SAE J1113, SAE J551

Radiated EMI standard: SAE J1752, J2556

Radiated immunity: SAE J1812

Conducted immunity: SAE J2628

• Safety Ratings:

ASIL C compliant

FMVSS 305 Compliant

• Functional Rating:

SAE J1772 Conducting Charging standards

ADDITIONAL FEATURES

- USA designed and manufactured
- Integrated Security
- Secure boot
- Secure internal key storage for signing, verification, and encryption in secure module subcomponent

SOFTWARE FEATURES

• Adaptable Software with modular design for easy integration, performing the combined functions of the following:

On Board Charging

Charge Controller

DC/DC 6-16Volt system

Power Distribution Unit

- ISS FlexHSM pre-ported through partnership with ISS
- ISS FlexUpdate pre-ported through partnership with ISS
- ISS DLM Trust for provisioning through partnership with ISS
- Software developed to Autosar coding guidelines



Request a Quote: sales@cybercogs.com



CyberCogs CC-CCU100 Depiction





