Data Sheet



HYDRA GOLIATH up to 240kW Ultra-Rapid DC

- Ultra-Rapid DC Charge
- Public Charging Application
- 2x5m Charging Guns
- Three Phase (530V)
- 60kW to 240kW DC Charging Output
- Ethernet/WiFi/4G Connectivity
- IP55 Weather Proof Rating
- Secured With OCPP cloud-Based Platform
- Pensio contactless payment solution







The Hydra Goliath Rapid DC Charger has been designed to distribute load-balanced and rapid charging to three electric vehicles simultaneously.

Fitted with a 10" touch-screen display, RFID card reader to control and monitor access, and our Pensio contactless payment solution it offers the widest possible opportunities from ring-fenced workplace charging or open, chargeable, public access charging to fully maximise faster return on investment.

Available in a base output of 60kW up to a maximum 240kW per vehicle.

The Goliath can be fully integrated with our unique Hydra Nexus online network management facility to offer a robust yet flexible and low maintenance EV charging solution for most commercial and public locations.

The Hydra Goliath Rapid DC Charger is fitted with the latest in air cooled charging gun technology, and can be equipped with dual or triple CCS2/CHAdeMO/ Type 2 connectors or a mix of all three.

For safety the Goliath has built-in safety functions which can shut down the charger if it detects input under voltage, input over-voltage, output shortcircuit, output over-voltage, output over-current, battery reverse connection, insulation detection, communication failure, etc. Additionally there is a fail-safe emergency stop button fitted to all Hydra EV chargers which can be manually operated in the event of a failure.

Data Sheet



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HYDRA GOLIATH Rapid DC Charging

Input RatingAC380V (±15%) 3-phaseAC input connection3P+N+PERated input current30 100A, 30 150A, 30 200A, 30 250A, 30 300A, 30 400AFrequency50/60HzPower Factor≥0.99Efficiency≥95%DC OUTPUTUOutput voltage range150V-1000VMax output current200A, 300A, 400A, 500A, 600A, 800AMax output current200A, 300A, 400A, 500A, 600A, 800AMax output current200A, 300A, 400A, 500A, 600A, 800AMax output powerDC60KW, DC30KW, DC120KW, DC180KW, DC240KWVoltage accuracy≤±0.5%Current Accuracy≤±1%USER INTERFACE AND CONTROLDisplay10.1″ LCD touchscreenButtonsOperation buttons and emergency stopAuthenticationRF1D, OCPP, QR code, password, appCOMMUNICATIONSExternalEthernet, Wi-Fr, 36/4G SIMInternalCAN, RS485, RS232ENVIRONMENTALOperating temperature-30°C + +50°CHumidity<95% relative humidity, non-condensingAltitude<2,000m (6,000ft)MECHANICALIngress protectionIK10CoolingFoor mountedPROTECTIONProtectionKK10ProtectionKI0Current, Under voltage, Over voltage, residual current, Surge protection, Short circuit, Over temperature, Ground faultREGULATIONCE. EN IEC-61851-1:2019; EN61851-23:2014; EN 61851-24:2014; EN IECCertificate and StandardCE. EN IEC-61851-1:2019; EN61851-23:2014; EN 61851-24:2014; EN IE	AC INPUT	
Rated input current3Ø 100A, 3Ø 150A, 3Ø 200A, 3Ø 250A, 3Ø 300A, 3Ø 400AFrequency50/60HzPower Factor20.99Efficiency295%DC OUTPUTUOutput voltage range150V-1000VMax output current200A, 300A, 400A, 500A, 600A, 800AMax output powerDC 60kW, DC 300A, 400A, 500A, 600A, 800AMax output powerDC 60kW, DC 300A, 400A, 500A, 600A, 800AVoltage accuracy≤±0.5%Current Accuracy≤±1%USER INTERFACE AND CONTROLDisplay10.1" LCD touchscreenButtonsOperation buttons and emergency stopAuthenticationRFID, 0CPP, QR code, password, appCOMMUNICATIONSExternalEthernet, Wi-Fi, 3G/4G SIMInternalCAN, RS485, RS232ENVIRONMENTALOperating temperature-30°C - +50°CHumidity<95% relative humidity, non-condensing	Input Rating	AC380V (±15%) 3-phase
Frequency50/60HzPower Factor≥0.99Efficiency≥95%DC 0UTPUTOutput voltage range150V-1000VMax output current200A, 300A, 400A, 500A, 600A, 800AMax output powerDC60kW, DC30kW, DC120kW, DC180kW, DC240kWVoltage accuracy≤±0.5%Current Accuracy≤±1%USER INTERFACE AND CONTROLDisplay10.1″ LCD touchscreenButtonsOperation buttons and emergency stopAuthenticationRFID, OCPP, QR code, password, appCOMMUNICATIONSExternalEthernet, Wi-Fi, 3G/4G SIMInternalCAN, RS485, RS232ENVIRONMENTALOperating temperature-30°C - +50°CHumidity<95% relative humidity, non-condensing	AC input connection	3P+N+PE
Power Factor ≥0.99 Efficiency ≥95% DC OUTPUT Output voltage range 150V-1000V Max output current 200A, 300A, 400A, 500A, 600A, 800A Max output power DC 60KW, DC 90KW, DC 120KW, DC 150KW, DC 240KW Voltage accuracy ≤±0.5% Current Accuracy ≤±1% USER INTERFACE AND CONTROL Display Display 10.1" LCD touchscreen Buttons Operation buttons and emergency stop Authentication RFID, 0CPP, QR code, password, app COMMUNICATIONS External External Ethernet, Wi-Fi, 3G/4G SIM Internal CAN, RS485, RS232 ENVIRONMENTAL Operating temperature -30°C + 50°C Humidity Voltage accuracy ≤95% relative humidity, non-condensing Attitude ≤2,000m (6,000ft) MECHANICAL Ingress protection Ingress protection IK10 Cooling Forced Air Installation Floor mounted PROTECTION Ver current, Under voltage, Over voltage, residual current, Surge protection, Short circuit, Over temperature, Ground fault	Rated input current	3Ø 100A, 3Ø 150A, 3Ø 200A, 3Ø 250A, 3Ø 300A, 3Ø 400A
Efficiency ≥95% DC OUTPUT	Frequency	50/60Hz
DC OUTPUT Output voltage range 150V-1000V Max output current 200A, 300A, 400A, 500A, 600A, 800A Max output power DC60kW, DC90kW, DC120kW, DC130kW, DC180kW, DC240kW Voltage accuracy ≤±0.5% Current Accuracy ≤±1% USER INTERFACE AND CONTROL Display Display 10.1" LCD touchscreen Buttons Operation buttons and emergency stop Authentication RFID, 0CPP, QR code, password, app COMMUNICATIONS Ethernet, Wi-Fi, 3G/4G SIM Internal CAN, RS485, RS232 ENVIRONMENTAL Operating temperature Operating temperature -30°C - +50°C Humidity <95% relative humidity, non-condensing	Power Factor	≥0.99
Output voltage range150V-1000VMax output current200A, 300A, 400A, 500A, 600A, 800AMax output powerDC60kW, DC90kW, DC120kW, DC180kW, DC240kWVoltage accuracy<±0.5%	Efficiency	≥95%
Max output current200A, 300A, 400A, 500A, 600A, 800AMax output powerDC60kW, DC90kW, DC120kW, DC180kW, DC240kWVoltage accuracy≤±0.5%Current Accuracy≤±1%USER INTERFACE AND CONTROLDisplayDisplay10.1" LCD touchscreenButtonsOperation buttons and emergency stopAuthenticationRFID, OCPP, QR code, password, appCOMMUNICATIONSExternalExternalEthernet, Wi-Fi, 3G/4G SIMInternalCAN, RS485, RS232ENVIRONMENTALOperating temperature90°C - +50°CHumidity<95% relative humidity, non-condensing	DC OUTPUT	
Max output powerDC60kW, DC90kW, DC120kW, DC180kW, DC240kWVoltage accuracy<±0.5%	Output voltage range	150V-1000V
Voltage accuracy ≤±0.5% Current Accuracy ≤±1% USER INTERFACE AND CONTROL Display Display 10.1" LCD touchscreen Buttons Operation buttons and emergency stop Authentication RFID, OCPP, QR code, password, app COMMUNICATIONS External External Ethernet, Wi-Fi, 3G/4G SIM Internal CAN, RS485, RS232 ENVIRONMENTAL Operating temperature -30°C - +50°C Humidity Humidity <95% relative humidity, non-condensing	Max output current	200A, 300A, 400A, 500A, 600A, 800A
Current Accuracy s±1% USER INTERFACE AND CONTROL Display 10.1" LCD touchscreen Buttons Operation buttons and emergency stop Authentication RFID, OCPP, QR code, password, app COMMUNICATIONS External External Ethernet, Wi-Fi, 3G/4G SIM Internal CAN, RS485, RS232 ENVIRONMENTAL Operating temperature -30°C - +50°C Humidity Humidity <95% relative humidity, non-condensing	Max output power	DC60kW, DC90kW, DC120kW, DC150kW, DC180kW, DC240kW
USER INTERFACE AND CONTROL Display 10.1" LCD touchscreen Buttons Operation buttons and emergency stop Authentication RFID, OCPP, QR code, password, app COMMUNICATIONS External External Ethernet, Wi-Fi, 3G/4G SIM Internal CAN, RS485, RS232 ENVIRONMENTAL Operating temperature -30°C - +50°C Humidity 4/titude \$2,000m (6,000ft) MECHANICAL Internal Ingress protection IP55 Enclosure Protection IK10 Cooling Forced Air Installation Floor mounted PROTECTION Over current, Under voltage, Over voltage, residual current, Surge protection, Short circuit, Over temperature, Ground fault REGULATION CE. EN IEC-61851-1:2019; EN61851-23:2014; EN 61851-24:2014; EN IEC	Voltage accuracy	≤±0.5%
Display10.1" LCD touchscreenButtonsOperation buttons and emergency stopAuthenticationRFID, OCPP, QR code, password, appCOMMUNICATIONSExternalEthernet, Wi-Fi, 3G/4G SIMInternalCAN, RS485, RS232ENVIRONMENTALOperating temperature-30°C - +50°CHumidity<95% relative humidity, non-condensing	Current Accuracy	≤±1%
Buttons Operation buttons and emergency stop Authentication RFID, OCPP, QR code, password, app COMMUNICATIONS External External Ethernet, Wi-Fi, 3G/4G SIM Internal CAN, RS485, RS232 ENVIRONMENTAL Operating temperature Operating temperature -30°C - +50°C Humidity <95% relative humidity, non-condensing	USER INTERFACE AND CONTROL	
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COMMUNICATIONS External Ethernet, Wi-Fi, 3G/4G SIM Internal CAN, RS485, RS232 ENVIRONMENTAL Operating temperature -30°C - +50°C Humidity Humidity <95% relative humidity, non-condensing	Buttons	Operation buttons and emergency stop
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ENVIRONMENTAL Operating temperature -30°C - +50°C Humidity <95% relative humidity, non-condensing	External	Ethernet, Wi-Fi, 3G/4G SIM
Operating temperature -30°C - +50°C Humidity <95% relative humidity, non-condensing	Internal	CAN, RS485, RS232
Humidity <95% relative humidity, non-condensing	ENVIRONMENTAL	
Altitude <2,000m (6,000ft)	Operating temperature	-30°C - +50°C
MECHANICAL Ingress protection IP55 Enclosure Protection IK10 Cooling Forced Air Installation Floor mounted PROTECTION Over current, Under voltage, Over voltage, residual current, Surge protection, Short circuit, Over temperature, Ground fault REGULATION CE. EN IEC-61851-1:2019; EN61851-23:2014; EN 61851-24:2014; EN IEC	Humidity	<95% relative humidity, non-condensing
Ingress protectionIP55Enclosure ProtectionIK10CoolingForced AirInstallationFloor mountedPROTECTIONVer current, Under voltage, Over voltage, residual current, Surge protection, Short circuit, Over temperature, Ground faultREGULATIONCE. EN IEC-61851-1:2019; EN61851-23:2014; EN 61851-24:2014; EN IEC	Altitude	≤2,000m (6,000ft)
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Installation Floor mounted PROTECTION Over current, Under voltage, Over voltage, residual current, Surge protection, Short circuit, Over temperature, Ground fault REGULATION CE. EN IEC-61851-1:2019; EN61851-23:2014; EN 61851-24:2014; EN IEC	Enclosure Protection	IK10
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Lertificate and Standard	REGULATION	
	Certificate and Standard	