

CLIPPERCREEK, INC.
INNOVATIVE INFRASTRUCTURE FOR
ELECTRIC AND HYBRID VEHICLES



User Manual



Model HCS

The HCS Front Panel

The front panel on the HCS has four indicator lights, as shown in **Figure 1**.

POWER (Amber), indicates that power is available to the HCS.

CHARGING (Green), indicates that the vehicle is requesting a charge and AC power is currently applied to the vehicle.

POWER FAULT (Red), indicates that the HCS is not wired correctly. The problem can be due to improper grounding or a missing Earth Ground. The wiring should be examined by a qualified electrician.

CHARGING FAULT (Red), indicates that the HCS is unable to communicate with the vehicle correctly, or a safety fault condition has been detected by the unit.

Figure 1: HCS Front Panel



Table 1: Front Panel LED Information

#	Amber Power LED	Green Charging LED	Red Power Fault LED	Red Charging Fault LED	Fault Condition
1	off	off	off	off	No power to EVSE. Check circuit breaker.
2	ON	off	off	off	Not plugged into the EV or the EV is not ready to charge.
3	ON	ON	off	off	Charging enabled, power is applied to the vehicle.
4	ON	off	ON - not blinking	off	Improper grounding or ground is not present.
5	ON	off	off	ON - not blinking	Problem with EV communications. Disconnect and restart.
6	ON	off	off	blinking	EV ground fault trip. Check vehicle connection.
7	ON	off	blinking	blinking	Internal EVSE fault. Call for service.

INSTALLATION - SERVICE CONNECTIONS



CAUTION: To reduce the risk of fire, connect only to a circuit provided with the appropriate maximum branch circuit overcurrent protection in accordance with the National Electrical Code, ANSI/NFPA 70 (US) or the Canadian Electric Code C22.2 NO. 280-13 (Canada).

ATTENTION: Pour réduire le risque d'incendie, de se connecter uniquement à un circuit fourni avec le approprié circuit de dérivation protection maximale contre les surintensités, en conformité avec le Code National électrique ANSI/NFPA 70 (US) ou Code Canadien de l'électricité C22.2 NO. 280-13 (Canada).

ATENCIÓN: Para reducir el riesgo de incendio, conecte sólo a un circuito proporcionado con la máxima protección adecuada contra sobre corriente del circuito derivado de acuerdo con el Código Eléctrico Nacional, ANSI/NFPA 70 (EE.UU) o el Código Eléctrico Canadiense C22.2 NO. 280-13 (Canadá).

Table 2: Service Connections for Standard & Ruggedized HCS

HCS Model	Connection/Receptacle Type	Circuit Breaker Rating
HCS-15	Hardwired	15A
HCS-20	Hardwired	20A
HCS-20R (Ruggedized)	Hardwired	20A
HCS-25	Hardwired	25A
HCS-30	Hardwired	30A
HCS-30R (Ruggedized)	Hardwired	30A
HCS-40	Hardwired	40A
HCS-40P	NEMA 6-50R	40A/50A
HCS-40P	NEMA 14-50R	40A/50A
HCS-40R (Ruggedized)	Hardwired	40A
HCS-40PR (Ruggedized)	NEMA 6-50R	40A/50A
HCS-40PR (Ruggedized)	NEMA 14-50R	40A/50A
HCS-50	Hardwired	50A
HCS-50P	NEMA 6-50R	50A
HCS-50P	NEMA 14-50R	50A
HCS-60	Hardwired	60A
HCS-60R (Ruggedized)	Hardwired	60A
HCS-80	Hardwired	80A
HCS-80R (Ruggedized)	Hardwired	80A