



usa.siemens.com/versicharge

Human Machine Interface (HMI)







02: Status LED Car connected 03: Status LED Charging 05: Wi-Fi LED -Wi-Fi 07: Time Delay LED – Bar 08: Charging Process Light 09: Touch Sensitive Button 10: RFID – Symbol –RFID 13: Unit under Remote Control 14: Front Panel Locked 15: RFID - Accept / Denied Audible HMI Elements 11: RFID - Accept / Decline 12: Relays / Switching Sound

Figure 2. Commercial HMI

NOTE: Number of LEDs may change based on specific part number and features.

Installation kit If hardwired or 2-pole, 50 amp Circuit Breaker if using a 240 V outlet.





Bracket Mounting:







Figure 3. Bracket Position

Figure 4. Wall Mounting



Charger Mounting:

STEP 2





STEP 4



Figure 6. Hanging Charger



Figure 7. Amp Switch Setting



Figure 8. Close Charger

STEP 1A

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STEP 5

STEP 6

STEP 7













STEP 8

STEP 9





Figure 12. SIM Card Installation



Figure 13. Ethernet Port Connection







Figure 15. Basic VersiCharge ModBus Connection



Figure 16. ModBus Termination Switch

STEP 10C (See below for applicable part numbers)



Figure 17. ModBus Termination Switch

STEP 11

External Remote Control Interface



Figure 18. External Remote Control Interface

Optional	Outlet Installation			
STEP 1	Standard Mounting (Recommended)	1. Locate a stud within the	wall that can handle the 14+ lb. load of the VersiCharge.	
		2. Place the mounting bracket not more than 12" above a 240 V outlet; level the mounting and drill the center-top hole using the drill with an extender.		
		3. Secure the mounting wi	ith the kit-supplied screws.	
		4. Drill the bottom hole using the bottom-center mounting hole as a guide.		
		5. Secure with the kit-supplied screw.		
		6. Tighten both top and bottom screws securely.		
		For other walls, install appropriate anchors. If using an existing outlet, ensure that power cord will reach to the outlet. Usin a 7/16" socket, attach mounting bracket to wall in compliance with all National Electrical Code® (NEC) and local jurisdiction requirements, using the 2 lag screws provided.		
STEP 1A	Alternate Mounting	NOTE: Anchors must be ra	ted for at least 100 lbs. (4 -25 lb. rated anchors).	
		The VersiCharge can be m	ounted using 4 - #12 x 1-½ LG Phillips head 0.375 head minimum with 4 - #10 – 14 wall anchors.	
		1. Locate the mounting bracket not more than 12" above a 240 V outlet or if hardwiring, the wiring will come through the bottom of the charger.		
		2. Level the mounting bracket and drill 4 holes, one in each corner of the bracket.		
		3. Place anchors into the w	vallboard until they are flush with the wall.	
		4. Place the mounting bracket over the holes (hinges facing upward, flat side of the bracket against the wall) with the anchors and screw the mounting to the wall securely.		
STEP 2	Install/Mount Charger	NOTE: For installation, the against the wall.	e mounting-bracket hinges will be pointing to the ceiling, and the flat side of the bracket will be	
		1. Slide the VersiCharge on to the hinges.		
		2. Rotate to the right until the unit clicks and is closed.		
		3. Secure the enclosure with the locking mechanism and plug the VersiCharge into the 240 V outlet. If hardwiring the unit, see Hardwire Installation in Step 7.		
STEP 3	Set Amp Switch	Serious injue equipment voltage cor required w referenced	lazardous voltage. Will cause death or ury. Turn off power before working on this t. This indicates a situation where the present uld cause injury or death. Extreme caution is hen servicing or installing the equipment to the maximum of the model purchased (i.e. a 40 amp model will not exceed 40 amps but may be e by using the amperage adjustment dial). See Figure 7.	
		Switch Position	Amps	
		0	12	
		1	16	
		2	24	
		3	32	
		4	40	
			49	
		5	48 vitch higher than #5 will cause a bad switch fault.	

STEP 5	Secure Charger (Optional)	 Using the 3 - #10-32 X 3/8", Tamper Resistant, Pin-In Hex Socket Button Head Cap Screw (Tamper-resistant alternative) secure the VersiCharge cover with one screw on the right side of the VersiCharge to bolt the cover closed. Secure the holster with one screw at the top of the holster where it connects to the VersiCharge cover. For more holster installation information, see Step 6 below. Secure the cover with the third screw at the bottom of the VersiCharge just above the holster.
STEP 6	Install Cable Holster	1. Align the holes in the holster and screw securely to the wall. 2. Place EV connector cable in the holster.
ارگ	serious injury. Turi equipment. This ir voltage could caus	us voltage. Will cause death or n off power before working on this idicates a situation where the present se injury or death. Extreme caution is vicing or installing the equipment
NOTE: Ar	y time the interior wiring	is exposed while there is power to the unit there is danger of hazardous voltage and serious injury.
STEP 7	Hardwire the VersiCharge (Skip if using an existing 240 V outlet)	 Open the VersiCharge and expose the wiring, unscrew the lugs and remove the plug. Loosen screws on lugs. Back out wires. Install new wiring. NOTE: The rating of the circuit breaker that will be required is based on the ampere rating of the EVSE; 40A requires 50A breaker, 48A requires 60A breaker. Plug removal is only necessary when hardwiring VersiCharge. When removing Stop cap to hardwire, the unit will no longer be rated NEMA 4 unless replacing the Stop cap with an approved cable gland.
STEP 8	SIM Card Installation Part numbers: 8EM1310-4CF14-1GA1, 8EM1310-5CF14-1GA1	SIM Card General Information This hardware uses a micro SIM card, but with an adapter will allow nano SIM cards. The SIM card should NOT require a PIN. Locked SIM cards are not supported by VersiCharge hardware. The following carriers are supported : AT&T, T-Mobile and Rogers. Data plans should have a minimum consumption of 250 MB per month per charger Expose the area holding the SIM card hardware by unlatching the cover (see Figure 11). The SIM card sits next to the Ethernet connection (see STEP 9). Slide the micro SIM card into slot. (SIM card to be supplied by the service provider). The SIM card socket is spring loaded. Slide the SIM card from the bottom upward into the slot until it stays in place. To remove/replace the SIM card, press the SIM card upward and it will "spring" down and out of the slot.
STEP 9	Connect Ethernet Part numbers: 8EM1312-4CF18-0FA3, 8EM1312-5CF18-0FA3, 8EM1310-4CF14-0GA0, 8EM1310-5CF14-0GA0, 8EM1310-5CF14-1GA1, 8EM1310-5CF14-1GA1	NOTE: The Ethernet cable connector should NOT be on the Ethernet cable when it is pushed through the rubberized gland. This gland will not self-seal if the connector is pushed through the rubberized gland and the NEMA 4 rating will be lost. Push the Ethernet cable through the rubberized gland and snake it up through the back to the opening. Connect the Ethernet connector and insert the connector from the bottom up into the Ethernet connection.

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STEP 10	Connect ModBus RS485	NOTE: The ModBus connector should NOT be on the Modbus cable when it is pushed through the rubberized gland. This gland will not self-seal if the connector is pushed through the rubberized gland and the NEMA 4 rating will be lost.	
	Part numbers:	1. Using the supplied ModBus connector gently press the connector into place (see Figure 14).	
	8EM1310-4CF14-0GA0, 8EM1310-5CF14-0GA0, 8EM1310-4CF14-1GA1,	2. Push the external ModBus cable through the rubberized gland at the back of the charger (this will self-seal). Attach the external wires to the internal wire connector.	
	8EM1310-5CF14-1GA1	3. Gently tuck the wiring into the space and secure the back of the charger.	
		Security Note: The ModBus RTU is an open protocol, and it is the responsibility of the installer to ensure the security of the wiring of these connections to prevent tampering.	
STEP 10A	ModBus Connection	NOTE: The ModBus connector should NOT be on the Modbus cable when it is pushed through the rubberized gland. This gland will not self-seal if the connector is pushed through the rubberized gland and the NEMA 4 rating will be lost.	
	Part Numbers 8EM1310-4CF11-0BA0, 8EM1310-5CF11-0BA0	1. Push ModBus cable through rubberized gland. The rubberized gland will self-seal around the cable.	
		2. Snake cable up to the ModBus connector.	
		3. Remove the ModBus plug that is in place and connect to the cable.	
		4. Reinsert the ModBus plug into the ModBus connector.	
		5. Termination Switch setting: Off position for a child unit, unless that child is the last child in the daisy chain, then it must be on.	
STEP 10B	Set ModBus Termination Switch	SW3-1 (left side) labelled A8 RS485 is the Termination switch. This switch should be in the ON position for the Parent unit or in the OFF position for a Child unit, unless that Child is the last Child in the daisy chain, then it must be ON.	
	Part numbers: 8EM1310-4CF14-0GA0, 8EM1310-5CF14-0GA0, 8EM1310-4CF14-1GA1, 8EM1310-5CF14-1GA1		
STEP 10C	Set ModBus Termination Switch	SW3-2 (right side) labelled M0 RS485 Term is the Termination switch. For the child units the Termination switch must be set to OFF, unless the unit is the last one in the daisy chain, then the switch must be set to ON.	
	Applicable to Child units ONLY with the following part numbers: 8EM1310-4CF14-0GA0, 8EM1310-5CF14-0GA0		
STEP 11	Connect External Remote Control	The Siemens VersiCharge has a Remote Control Interface that allows charging to be controlled by an external device. Examples include demand response switches, building automation systems, digital sensors, etc.	
	Interface – (Optional). Part numbers: 8EM1312-4CF18-0FA3, 8EM1312-5CF18-0FA3,	To wire a digital input into the dry contact in the connection area located inside of the VersiCharge, please refer to the complete VersiCharge AC Series Installation and Operation Manual at www.usa.siemens.com/versicharge for more detail.	
	8EM1310-4CF14-0GA0, 8EM1310-5CF14-0GA0, 8EM1310-4CF14-1GA1, 8EM1310-5CF14-1GA1	 When the external contact is closed, the alternate input will control the VersiCharge, preventing it from entering the 'Charging' state. The status output is a switch that indicates charging status. When the contacts are closed, the unit is in charging state. 	
		Pin # Label Description	
		7 Utility_1 Utility lockout (dry contact input; locked when closed)	
		9 Utility_2	
STEP 12	Check the System	Turn the power on; the white Power Available light should illuminate. If it does not, verify that the outlet or wire is putting out 240 or 208 V using the voltmeter.	
		With the Power Available light on, plug the Electric Vehicle Supply Equipment (EVSE) cable into the car. If you have any fault lights, please see the HMI figures in the beginning of this manual.	
		Siemens VersiCharge Mobile App: Download the VersiCharge mobile app to your smartphone to get started using your charger. Find these applications at either Google Play (https://play.google.com/store), or iOS stores (https://www.apple.com/ ios/app-store/).	

Maintenance

While there is no maintenance for the internal works of the VersiCharge, the exterior does require some basic, common sense maintenance. The following maintenance can be performed by the owner/user. All other service must be conducted by qualified personnel.

If there is any damage to the charger, contact your supplier.

General exterior maintenance is recommended to be performed every six months depending on the environment. In harsh environments, maintenance should be performed more often.

General exterior maintenance

Regular cleaning is recommended to avoid accumulation of debris/dust/dirt on or around the unit. Wipe surfaces with a soft cloth dampened with water, or for harder to removed marks, use an alcohol based cleaner. Do not spray with high pressure cleaning hoses or use abrasive chemicals.

General external checks

Check for cuts, damage, and debris. If debris is present, remove it. If you find damage, contact your supplier.

Check for damage and corrosion. If present, contact your supplier.

Check the HMI for damage/signs of faded color that is clearly visible.

Ensure there is no debris or damage inside or around the cable, cable holder and connector/plug. If present, remove debris and/or notify the supplier of any damage. Check the connector/plug pins for any signs of corrosion and contact the supplier, if there is any damage to the pins.

Check for snow buildup around the VersiCharge and clear the area around the VersiCharge. This should be checked daily in areas with high snowfall.

STEP 12 Check the system

APPENDIX A.- System Operation/Faults

Light State	Description	Solution
Normal Operation		
Light #1 💭	#1 Ready to Charge – Power On – light steady white	Connect EV. Begin charge.
Light #2 🖸	#2 Car Connected -	Disconnect the EV connection
	Light steady white	cable.
Light #5	#5 Wi-Fi Status – No Wi-Fi-	Check router.
	Light flashing red	
Light #5 🔆	#5 Wi-Fi Status – Wi-Fi Weak –	Consider using a Wi-Fi extender
	Light flashing orange	to boost the signal.
Light #5 🗱	#5 Wi-Fi Status - Wi-Fi Strong –	No Action
	Light flashing green	
Light #7 🇱	#7 Time Delay Light - Delay 2 hours – Light flashing white	Wait for charge.
Light #7 🗱	#7 Time Delay Light - Delay 4 hours – Light flashing white	Wait for charge
Light #7 🗱	#7 Time Delay Light - Delay 6 hours – Light flashing white	Wait for charge
Light #7 🗱	#7 Time Delay Light - Delay 8 hours – Light flashing white	Wait for charge
Light #9	#9 – Touch Sensitive Button – Press Button for 5 seconds to maximize power level.	Cancel the remote power setting by pressing button 5 seconds continuously and maximizes Power.

Light State	Description	Solution
Faults		
Light #9 💽	#9 – Touch Sensitive Button – Reset Ground Fault – Press once to reset the unit.	The unit is in a fault state. Press one time to reset the ground fault.
Light #4 🔀	#4 Fault occurring –	Power cycle/turn breaker off and then on
	Light flashing red	
Light # 4 🖸	#4 + #7 (4 hr. delay light) –	Call Tech Support
Light # 7 💭	Lights steady red	
Light # 4 🖸	#4 + #7 (2 hr.+4 hr. delay light) –	Call Tech Support
Light #7 🖸	Both lights are steady red	
Light #4 🔀	#4+ #7 (2 hr. delay light) –	Call Tech Support
Light # 7 🖸	Fault occurring	
-	#4+ #7 (2 hr. + 6 hr. delay light) –	Call Tech Support
Light # 4 🔀	Fault occurring	
Light # 7 🖸		
Light # 4 🔀	#4+ #7 (2 hr.+ 8 hr. delay light) –	Call Tech Support
Light #7 🖸	Fault occurring	
Light # 4 🔀	#4+ #7 (2 hr. + 4 hr. + 6 hr. +8 hr. delay light) –	Call Tech Support
Light #7	Fault occurring	
Light #4 🔀	#4+ #7 (4 hr. delay light) –	Call Tech Support
	Fault occurring	
Light # 7 🖸	#4+ #7 (4 hr. + 6 hr. delay light) –	Call Tech Support
Light #4 🔀	Fault occurring	
Light #7 🖸		
Light #4 🔀	#4+ #7 (6 hr. delay light) –	Call Tech Support
Light #7 🖸	Fault occurring	
Light #4 🔀	#4+ #7 (8 hr. delay light) –	Call Tech Support
	Fault occurring	
Light #7 🖸	#4+ #7 (4 hr. + 6 hr. +8 hr. delay light) –	Call Tech Support
Light # 4 🔆	Fault occurring	
Light # 7 🖸		
Steady light – 💟	NOTE:	
Flashing light – 🗱	Light #1 is the Power Status	
	Light #2 is the Car Connected	ed Status LED

Touch Senstive Button -

Light #2 is the Car Connected Status LED.

Light #5 is the WI-Fi LED status.

Light #4 is the LED Fault light.

Light #7 is the Time Delay LED Light bar with 2, 4, 6, and 8 hour delay lights – some combination of lights 4 and 7 indicate the fault.

Light #9 is the Touch Sensitive Button.

APPENDIX B – Useful Links

Find the following at: usa.siemens.com/versicharge

- Register your VersiCharge
- Download the VersiCharge Configuration Tool
- Configure your VersiCharge
- VersiCharge Frequently Asked Questions
- Detailed VersiCharge Installation and Operating Manual, as well as all legal and warranty information.

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