

# THE CITY OF SANTA CLARA SILICON VALLEY POWER

## SERVICE GUIDELINES FOR COMMERCIAL LEVEL 2 AND DC FAST CAR CHARGERS

**THE FOLLOWING EXPLAINS SILICON VALLEY POWER’S POLICY FOR METER SERVICES AND PRESENTS GUIDELINES FOR WHEN A NEW METER SERVICE MAY BE ALLOWED FOR NEW CAR CHARGERS:**

The proposed addition of new level 2 or DC fast chargers to an existing commercial business will require the customer to add new electric vehicle (EV) charger loads to their existing electrical service. The customer shall use their existing utility service for the new loads including EV loads if there is adequate capacity. Please see below for guidelines related to electric service.

Silicon Valley Power Rules and Regulations No. 9.A.4 states, “Number of Electric Services: Unless otherwise provided by these Rules and Regulations, only one Electric Service shall be provided to a building. More than one Electric service for an industrial or commercial Customer may be provided under the following conditions. 9.A.4.(a) When the existing main service size exceeds the maximum allowable Ampere values in Table 9.1 (shown below). 9.A.4.(b) When developments with special circumstances such as a long or large buildings make it impractical to provide one Electric Service and the loads are too small for a 12kV service.”

If the customer believes that their new car charger service additions would qualify for new service, then contact Scott Anderson of SVP Electrical Engineering at 408-615-6628, to consider review of the proposed new meter service.

**Table 9.1 – Service Voltages (Excluding Residential)**

SERVICE TYPE	OVERHEAD	MAX SIZE	UNDERGROUND	MAX SIZE
MULTI-FAMILY	120/240V 1PH, 3W	400 Amp	120/240V 1 PH, 3W	400 Amp
INDUSTRIAL	120/208V 1 PH, 3W	400 Amp	120/208V 1 PH, 3W	400 Amp
COMMERCIAL	120/240V 1 PH, 3W	400 Amp	120/208V 3 PH, 4W	3000 Amp
	120/208V 3 PH, 4W	1200 Amp	480V 3 PH, 3W	4000 Amp
	120/240V 3 PH, 4W	1200 Amp	480/277V 3 PH, 4W	4000 Amp
	480V 3 PH, 3W	600 Amp	12,000V 3 PH, 3W	*
	12,000V 3 PH, 3W	*		
	60,000V 3 PH, 3W	*		

\*By Agreement