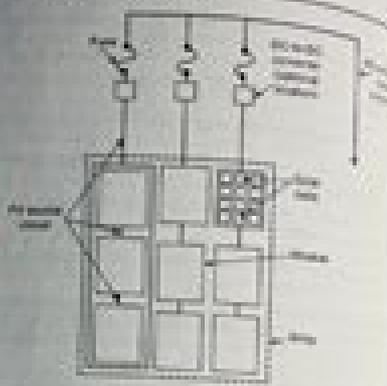


FIG. 1. General



**FIG. 1. General**  
 This diagram shows an example of a typical PV system. The PV array is connected to a controller, which is connected to a battery bank. The battery bank is connected to an inverter, which outputs AC power to a load.

**2 Informational Note** Figure 606.1 is for identification and Power Source Components.

**Power-Circuit (dc) Conditions.** An enclosure that holds devices used to connect power source PV arrays is listed parallel.

**Electronic Power Converter.** A device that converts direct or alternating current from one form of the rate of power into another form of electrical power.

**Informational Note.** Examples of electronic power converters include, but are not limited to, inverters, dc-to-dc converters, and electronic charge controllers. These devices have safety and electrical capabilities based on the design except a certified design.

**2 Grounded, Functionally.** A system that has an electrical ground reference for operational purposes that is not safety ground.

**Informational Note.** A functionally grounded system is not connected to ground through an earth-grounded conductor. It is a system of charge controller that provides ground reference. Examples of operational purposes for functionally grounded systems include ground fault detection and protection, communication, and data transfer systems.

**2 Module.** A complete, commercially prepared, self-contained unit with cells and other components designed to operate in power.

**2 Stringed Circuit.** An electric circuit of a PV system that has two conductors in the output circuit and produces a specific voltage.

**2 PV Output Circuit.** The dc circuit conductors that connect a PV array to a PV system or to the point of connection.



**ARTICLE 606**  
**Solar Photovoltaic (PV) Systems**

**Part 1. General**

**2 606.1 Scope.** This article applies to solar PV systems other than those covered by Article 675, including the array conductors, accessories, and components for each system. The systems covered by this article include those connected with other systems, ground protection systems or grounding, and PV systems that have or will be designed for other uses.

**Informational Note No. 1.** See Informational Note Figure 606.1 and Informational Note Figure 606.2.

**Informational Note No. 2.** See the definition of the installation of a PV system in Article 606.1.

**2 606.2 Definitions.** The definitions in this section shall apply unless otherwise noted.

**AC Module System.** An assembly of a module, array with dc, terminal, and accessories that are evaluated, identified, and listed as a system.

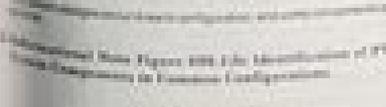
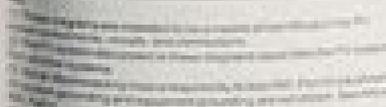
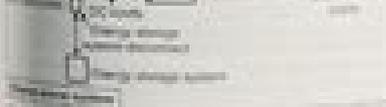
**2 Alternating Current (ac) Module (Alternating Current Photo Voltaic Module).** A complete, commercially prepared unit consisting of solar cells, inverter, and other components, designed to operate in power.

**Array.** A collection of PV modules arranged in a series or parallel with other modules, including any interconnect wiring components such as conductors or blocks, terminals, and listed electrical wiring.

**2 Array Circuit.** A dc circuit that is a component of the photovoltaic array having a common return conductor to a common connection point.

**AC or AC-Converter Output Circuit.** The dc circuit conductors that connect to the output of a dc converter, the dc-to-ac converter, or inverter.

**2 AC or AC-Converter Source Circuit.** Circuits between dc-to-ac converters and their electrical connections to the common connection point of the dc system.



**PV System Disconnect.** The dc circuit conductors between modules and their conductors to all conductors, electrical panel conductors, and PV system disconnect means.

**PV System DC Circuit.** For a system with PV output conductors, PV output circuit, dc-to-dc converter, ac-to-dc converter, and dc-to-dc converter components.

**Safe Volt.** The low PV array that produces electricity when open-circuit.

**606.4 General Requirements**

**2 606.4.1 Photovoltaic System.** Photovoltaic systems shall be permitted to supply load(s) in other locations in addition to another electrical system.

**2 606.4.2 Equipment.** Inverters, ac-to-dc converters, PV modules, dc modules, and ac modules, dc-to-dc converters, dc-to-ac converters, and dc-to-dc converters, shall be listed and labeled for use in PV systems and shall be used as indicated by the application and have a UL954 label applied.

**2 606.4.3 Qualified Personnel.** The installation, inspection, and all electrical testing and maintenance shall be performed only by qualified persons.

**Informational Note.** See Article 606.1 for the definition of a PV system.

**2 606.4.4 Multiple PV Systems.** Multiple PV systems shall be permitted to be installed in or on a single building or structure, where the PV systems are electrically bonded from each other to a common dc connection with the dc load be provided at each PV system disconnect.

**2 606.4.5 Location for Bonded PV System Disconnect and Disconnecting Means.** Disconnecting means shall not be located in buildings.

**2 606.4.6 Disconnect from Conductors Mounted in the Building.** Disconnecting means shall be permitted to be located in buildings, where the disconnecting means are not readily accessible, where the disconnecting means are not readily accessible, where the disconnecting means are not readily accessible, where the disconnecting means are not readily accessible.

**2 606.4.7 Photovoltaic System Circuit.** The requirements of Article 606.4 shall apply to the PV system circuit and shall apply to the system disconnecting means, the PV system disconnecting means, and disconnecting means to be installed in buildings, where the disconnecting means are not readily accessible.

**2 606.4.8 Output Circuit.** The output of ac-to-dc converter, dc-to-dc converter, and dc-to-dc converter shall not be connected to other electrical systems.

**Part 2. Circuit Requirements**

**2 606.2.1 Maximum Voltage.** The maximum voltage of PV system shall be limited to the highest voltage between any two conductors of a system or any conductor and ground. The maximum voltage shall be used to determine the voltage and voltage to ground shall be used for the application of this article. Maximum ground-to-ground or conductor-to-conductor voltage, working voltage shall be used for the application of this article, working voltage, and other applications where voltage limits and requirements.

**2 606.2.2 Voltage.** PV system is a system that is installed in a building that is permitted to have a maximum voltage no greater than 1500 volts. PV system

# National Electric Code 690

**David Herres**



## **National Electric Code 690:**

*The New 1999 National Electrical Code Coupled with New Standards Clarify Requirements for Installations of Photovoltaic Systems in the U.S.*, 1999 The National Electrical Code NEC focuses primarily on electrical system installation requirements in the U S The NEC addresses both fire and personnel safety This paper will describe recent efforts of the PV industry in the U S and the resulting requirements in the 1999 National Electrical Code Article 690 Solar Photovoltaic Systems The Article 690 requirements spell out the PV unique requirements for safe installations of PV systems in the U S A This paper provides an overview of the most significant changes that appear in Article 690 of the 1999 edition of the NEC The related and coordinated efforts of the other standards making groups will also be briefly reviewed

**Illustrated Guide to the 1999 National Electrical Code** John E. Traister, 1999 This fully illustrated guide offers a quick and easy visual reference for installing electrical systems Whether you re installing a new system or repairing an old one you ll appreciate the simple explanations written by a code expert and the detailed intricately drawn and labeled diagrams A real time saver when it comes to deciphering the current NEC

**National Electrical Code Blueprint Reading Based on the 1996 NEC** R. T. Miller, 1995 *National Electrical Code*, 2008 *National Electrical Code 2002 Handbook* Mark W. Earley, National Fire Protection Association, 2002 The No 1 electrical reference title is available from today s No 1 electrical publisher The single most important reference in the electrical industry NEC 2002 provides 100 percent of the information needed to meet code and avoid costly errors in electrical installations of all types

National Electrical Code 1996 National Fire Protection Association, 1995 Revised every three years the National Electrical Code NEC is the most widely used and accepted criteria for all electrical installations The book contains the up to the minute facts and safety guidelines which students and electricians need to avoid costly errors and get installations and inspections right the first time

**The National Electrical Code Handbook**, 1989 Fiscal Year 1998 Budget Authorization Request United States. Congress. House. Committee on Science. Subcommittee on Energy and Environment, 1999

**2011 National Electrical Code Chapter-By-Chapter** David Herres, 2011-08-26 A STEP BY STEP GUIDE TO THE 2011 NATIONAL ELECTRICAL CODE Written by a Master Electrician 2011 National Electrical Code Chapter by Chapter offers an in depth analysis of the NEC with particular attention to the order in which various elements appear This practical resource provides the knowledge you need to pass the Master Electrician s License Exam the first time by helping you understand the structure and logic of the NEC rather than memorize all the details Material that appears outside the NEC main body including the index annexes and Article 90 is also discussed in this essential handbook 2011 National Electrical Code Chapter by Chapter covers General Wiring and Protection Wiring Methods and Materials Equipment for General Use Special Occupancies Special Equipment Special Conditions Communications Systems Tables

National Electrical Code, 1987 National Fire Protection Association, 1986

**McGraw-Hill's National Electrical Code 2011 Handbook** Brian J. McPartland, Frederic P. Hartwell, Joseph F.

McPartland,2011-04-04 The Most Complete Guide to the 2011 NEC Thoroughly revised and expanded with hundreds of pages of new material to reflect changes in the 2011 NEC McGraw Hill s National Electrical Code 2011 Handbook 27th Edition provides authoritative guidance and analysis to help you accurately interpret 2011 NEC rules Co author and working electrician Frederic P Hartwell who has participated in the NEC process for almost thirty years describes problems and difficulties in NEC provisions from an unbiased and practical perspective It does not duplicate NEC text and tables within its covers Designed as an essential companion to the 2011 NEC it contains over one third more explanatory material and more than 1000 diagrams and photos within its convenient 6 x 9 inch format Details on the background and rationale for specific code rules facilitate an in depth understanding of the meaning and application of those rules This must have on the job reference helps your work pass inspection the first time

**PV and the NEC** Bill Brooks,Sean White,2020-08-04 Used throughout the United States and many other countries the National Electrical Code NEC is the world s most detailed set of electrical codes pertaining to photovoltaic PV systems PV and the NEC presents a straightforward explanation of the NEC in everyday language This new edition is based on the 2020 NEC which will be used widely until 2026 with most of the interpretations and material staying true long after This book interprets the distinct differences between previous versions of the NEC and the 2020 NEC and clarifies how these code changes relate specifically to PV installations Written by two of the leading authorities and educators in the field this book will be a vital resource for solar professionals as well as anyone preparing for a solar certification exam

**California Electrical Code, Based on National Electrical Code** ,2008

**Illustrated Changes in the National Electrical Code** Ronald P. O'Riley,1998 This text provides an abundantly illustrated and easy to understand analysis of the changes made to the 1999 NEC It includes over 200 illustrated changes that make it easy for students to see and understand the changes to the Code and the rationale behind them The text is organized in the same sequence as and all article and sections numbers correspond to the NEC which makes it easy to use and follow Reasons for rules and changes as well as exceptions are clearly illustrated and explained and long or complicated rules are broken down into digestible bites making it easy for students to grasp all material ALSO AVAILABLE INSTRUCTOR SUPPLEMENTS CALL CUSTOMER SUPPPORT TO ORDER Instructor s Manual ISBN 0 7668 1697 4 Testbank ISBN 0 8273 8611 7 Transparency Masters ISBN 0 7668 0764 9

**National Electrical Code Handbook** Brian McPartland,Joseph McPartland,2005-05-17 The Best Code Reference in Print Edition after popular edition McGraw Hill s National Electrical Code R Handbook has delivered unmatched put the Code R into practice guidance No wonder it s been the leading reference on the NEC R for more than 70 years Completely updated to reflect the 2005 National Electrical Code R this is the most frequently consulted NEC R guidebook in the world an indispensable authoritative source of Code R how to s interpretation and advice Step by step advice on all troublesome and controversial sections of the Code R Helps electrical workers pass inspection the very first time Extra thorough explanations without word for word reproduction of the Code R A lavish offering

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    **"Code of Massachusetts regulations, 1988"** , 1988 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020

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