

**2008 Oregon Electrical
Specialty Code Adoption
Code changes**

Updated: 3/10/2010

Item #	OSEC	reference	New proposal	Comment	Committee Action	Board Action
Chapter 1: Administration						
101.1	Title			Oregon Solar Energy Code		
101.2	Purpose	NEC 90.1		Protection of property and citizens		
101.3	Plans	918-311		Plan submission to AHJ		
101.4	Structural	OSSC		Support structure assembly design		
101.5	Fire fighter	Fire code		Best practice guide		
101.6	Scope	NEC 90.2		Provisions of code and applicability		
101.7	Repair	90.2 (C		Special permission		
101.8	Existing	918-305		Compliance with current codes and standards		
101.9	Conflict	305-0100		Conflicts between codes		
102.1	Relocate	Application		Systems relocated must comply with current code		
102.2	Disconnect	Authority		AHJ, PUC, fire department authority to disconnect		
102.3	Inspections	918-271		Cover and final inspections by AHJ		
102.4	Corrections	271-0030		Corrections made in a timely manner		
102.5	Approval			Final inspection approval by AHJ		
Chapter 2: Definitions						
201.1	Definitions	NEC 100 +		Definitions of additional terms		
Chapter 3: Structural Requirements						
301.1	Scope			Scoping section	Approved as Modified 1/28/10	
302.1	Definitions	OSSC/RSC		Definitions: new and added	Tabled 2/25/10	
303.1	General Minimum Standards and Quality			General applicablilty of code to installations	Approved 2/25/10	

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303.2	Types of Construction			Pv systems and supporting structures to comply with OSSC/RSC	Approved as Amended 1/28/10	
303.3	Material Standards			Modules to be listed/labeled	Approved as Amended 2/25/10	
303.4	Certification Requirements			Racking etc.	Approved as Amended 2/25/10	
303.5 (new #)	Fire Classification			Rooftop systems labeled to identify fire classification	Approved as Amended 2/25/10	
303.5.1	Testing			Rooftop systems labeled to identify fire classification	Approved as Amended by deleting 1/28/10	
303.5.2	Wind-Resistance			Modules/shigles must comply with table for wind speed	Approved as Amended by deleting 2/25/10	
303.6	Weather Protection			Materials protected from corrosion/deterioration	Approved as Amended 2/25/10	

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303.6.1	Roof Decks			roof coverings to prevent moisture	Approved as Amended by deleting 2/25/10	
303.6.2	Flashings			Flashings installed to prevent moisture penetration	Approved as Amended by deleting 2/25/10	
304.1	Location General			Location general	Approved 2/25/10	
304.2	Zoning Requirements			Comply with local zoning requirements	Approved 2/25/10	
304.3	Flood Hazard Areas			In flood hazard must comply with applicable OSSC/RSC	Approved 2/25/10	
304.4	Building Egress			Not installed in areas restricting access	Approved 2/25/10	
304.5	Light and Ventilation			Not installed restricting light and ventilation	Approved 2/25/10	
304.6	Rooftop Vent/Drain Clearances			Not installed restricting plumbing, mech vents, etc.	Approved 2/25/10	
304.7.	Mechanical Equip. Clearances			Clearances consistent with OMSC	Tabled 2/25/10	
304.8	Roof Drainage			Not installed to obstruct roof drainage	Tabled 2/25/10	

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304.9	Fire Safety	marshall		Fire fighter access for personnel safety	Approved as Modified 1/28/10	
304.9.1	General Pathway locations	new		General requirements and exceptions	Tabled 2/25/10	
304.9.2	Intermediate Pathways	new		Pathway requirements for large systems	Tabled 2/25/10	
304.9.3	Prohibited Locations	new		Pathways not located in roof valleys	Tabled 2/25/10	
304.9.4	Vent Cutouts	new		Vent cutout requirements in pathways	Tabled 2/25/10	
304.9.6	Electrical Component Location	new		Location of electrical components in pathways	Tabled 2/25/10	
304.10	Alternate Installations	OSSC/RSC		Approval of BO for alternate material design etc.	Approved as Modified 2/25/10	
305.1	General Structural			Installation in accordance with this section	Approved 2/25/10	
305.2	Module Attachment			Attached in accordance with Manuf. Instruction or designed to OSSC	Approved as Modified 2/25/10	
305.3	Racking			Racking to comply with section	Approved 2/25/10	
305.3.1	Weather Exposure			Exposed Materials approved for exterior locations	Approved as Modified 2/25/10	
305.3.2	Structural Support			Racking and supports mounted to structural components	Tabled 2/25/10	

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305.3.3	Connection to structural members			Racking etc positively attached, bolts, etc	Approved as Modified by deleting 2/25/10	
305.3.3	Roof mounted racking			Roof mounted supports and parts thereof designed to support all loads	Approved as Modified 2/25/10	
305.4	Ground Mounted			Designed and constructed to support all loads	Approved as Modified 2/25/10	
305.5 (new #)	Prescriptive Installations			Prescriptive requirements for conventional light frame roof installations	Tabled 2/25/10	

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Chapter 4: Electrical Requirements						
I General						
401.1	Electrical	479.730		Compliance with requirements of the OESC	Approved 9/10/09	
401.2	Scope	690.1		Provisions of this article apply to PV systems	Approved 9/10/09	
401.3	Other codes	690.3		Compliance with NEC articles 705 and 310.15	<i>Approved as amended</i> 9/10/09	
401.4	Installations	690.4		Sub paragraphs A, B, C, and D, add subsection (E) 10/22/09	<i>Approved as amended</i> 9/24/09	
401.5	GFP	690.5		Ground fault protection for equipment subs A, B, and C	Approved 9/10/09	
401.6	AC modules	690.6		AC modules subs A thru E	<i>Approved as amended</i> 9/10/09	
II Circuit Requirements						
402.1	Max voltage	690.7		Ref table, and subs A thru E	<i>Approved as amended</i> 9/10/09	
402.2	CKT sizing	690.8		Calculation of current subs A thru E	<i>Approved as amended</i> 9/10/09	
402.3	OC protect	690.9		Overcurrent protection for system components	Approved 9/10/09	
402.4	Stand alone	690.10		systems that stand alone	Approved 9/10/09	

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III Disconnecting Means						
403.1	Conductors	690.13		Disconnection of all current carrying conductors	<i>Approved as amended 10/22/09</i>	
403.2	Add prov	690.14		Provisions for disconnect characteristics and ID	Tabled 10/22/09	
403.3	Disc PV	690.15		Disconnects grouped and identified	Approved 9/10/09	
404.4	Fuses	690.16		Disconnection of fuses required	Approved 9/10/09	
404.5	SW or CB	690.17		Switch or circuit breaker requirements	Approved 9/10/09	
404.6	Inst or srvc	690.18		Disabling an array for installation or service	Approved 9/10/09	
IV Wiring Methods						
405.1	Permitted	690.31		Wiring methods permitted, A thru F	Approved 9/10/09	
405.2	Cables	690.32		Component interconnections	Approved 9/10/09	
405.3	Connectors	690.33		Connector configurations and characteristics	<i>Approved as Amended 9/10/09</i>	
405.4	Access	690.34		Enclosures concealed by modules or panels	Approved 9/10/09	
405.5	Ungrd PV	690.35		Requirements for ungrounded systems A thru G	Approved 9/10/09	

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V Grounding						
505.1	Grnded PV	690.41		System grounding	Approved 9/24/09	
505.2	Pt of grnd	690.42		Point of system grounding	Approved 9/24/09	
505.3	Equip grnd	690.43		Equipment grounding requirements	Approved 9/24/09	
505.4	Size	690.45		Size of equipment grounding conductors A and B	Approved 9/24/09	
505.5	Array grnd	690.46		Array equipment grounding conductors	Approved 9/24/09	
505.6	GE system	690.47		Grounding electrode system A thru D	<i>Approved as amended 10/08/09</i>	
505.7	Continuity	690.48		Continuity of equipment grounding systems	Approved 9/24/09	
505.8	Cont DC	690.49		Continuity of source and output circuit grounded cond	Approved 9/24/09	
505.9	Bond jump	690.50		Equipment bonding jumpers	Approved 9/24/09	
VI Marking						
506.1	Modules	690.51		Module characteristics identified	Approved 10/08/09	
506.2	AC mods	690.52		Alternating current modules identification	Approved 10/08/09	
506.3	DC source	690.53		Permanent label for direct current sources	<i>Approved as amended 10/08/09</i>	

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506.4	Pt of conn	690.54		Interactive system point of connection identified	<i>Approved as amended 10/08/09</i>	
506.5	PV storage	690.55		PV systems employing energy storage	<i>Approved as amended 10/08/09</i>	
506.6	Sources	690.56		Identification of power sources A and B	<i>Approved as amended 10/08/09</i>	

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VII Connection to Other Sources						
507.1	Load disc	690.57		All sources identified	Approved 10/08/09	
507.2	Interactive	690.60		Certified interactive equipment	<i>Approved as amended</i> 10/08/09	
507.3	Source loss	690.61		Loss of source voltage deenergizes inverter output	Approved 10/08/09	
507.4	Neut amp	690.62		Ampacity of neutral conductor	Approved 10/08/09	
507.5	Unbalanced	690.63		Single phase inverter connections to three phase systems	Approved 10/08/09	
507.6	Pt of conn	690.64		Load side supply side point of connection	<i>Approved as amended</i> 10/08/09	
VIII Storage Batteries						
508.1	Installation	690.71		Installation of storage batteries in a PV system A thru G	Approved 10/08/09	
508.2	Charge	690.72		Control of charging process for batteries	Approved 10/08/09	
508.3	Interconnect	690.74		Interconnection of batteries	Approved 10/08/09	
IX Systems over 600 Volts						
509.1	General	690.80		General requirements	Approved 10/08/09	
509.2	Definitions	690.85		Definitions	Approved 10/08/09	