

## X2500 SOLAR CONNECTOR

### FEATURES:

- Meets all new NEC 2008 requirements
- UL and TUV dual approval
- Meet industry standards
- Quick and easy secure snap-lock mating
- Simple unlocking tool meets NEC requirements
- Long-term UV and Ozone resistance
- Withstands hydrolysis, oil, chemicals, abrasion, corrosion, and extreme temperatures
- Highest current rating in industry
- RoHS compliant
- Complete Cable Assemblies available
- Low contact resistance means low power loss
- Ready for field assembly
- No assembly required, no small parts to lose



### GENERAL :

The Xmultiple X2500 Solar Connectors provided cost effective solutions for all segments of the solar electric system on the market today. They have the advantage of a 40A current rating which is the highest in the solar industry. The Xmultiple X2500 is designed with efficient, low loss power transfer through X2500's ultra machined contacts. The X2500 connectors offer high reliability for both thin film and crystalline silicon technologies.

The Xmultiple X2500 Solar Connectors have an advanced locking system which is a snap lock mating for quick and easy connections. This locking mechanism is NEC 2008 compliant. The Xmultiple X2500 meets NEC 2008 standards which requires no additional components. The X2500 connectors meet waterproof IP67 standards and withstand hydrolysis, oil, dust, dirt, chemicals, abrasion, corrosion, and temperature extremes. The X2500 has a 25-year UV and ozone resistance, The Xmultiple 2500 Solar Connectors are fully compatible and mateable with industry standard (MC4) connectors. They are easy to install with field assembly. The Xmultiple X2500 meets UL, TUV, IEC/CEI, NEC, DIN V and is RoHS compliant.

Panel Connectors also available. The Xmultiple X3000 Panel Connector provides lower contact resistance and higher current ratings. This results in lower power losses. Compatible with standard industry connectors. The X3000 Panel Connector is available in three different gauges including 14 AWG rated at 36A, 12 AWG rated at 45A, and 10 AWG rated at 52A.

## X2500 SOLAR CONNECTOR

### TECHNICAL SPECIFICATIONS:

#### Electrical Specification -40degreeC - +90degreeC

Current Rating	36A (2.5mm <sup>2</sup> , AWG14), 45A (4.0mm <sup>2</sup> , AWG12), 52A (6.0mm <sup>2</sup> , AWG10)
Voltage Rating	1000V (IEC/CEI), 600V(UL) )
Test Voltage	6kV for 1 minute, 10kV impulse (1.2/50µS)(IEC)
Contact Resistance	0.25mΩ
Contact Type	Ring terminals on threaded studs for extra strength
Contact Material	Copper, tin plated
Insulation Material	PC
Locking Mechanism	Snap-lock, special unlock tool required to un-mate
Cable Strain Relief	Compression gland with ratcheting gland nut
Safety & Flame Class	II (IEC61140) and UL94-V0
Pollution Degree	2 (IEC60664)
Overvoltage Category	III (IEC60664)
Protection Level	IP68 (1 meter, 1 hour) mated

### ORDERING INFORMATION:

MODEL NO. X	DESCRIPTION X
XSOL-PV002	Solar Connectors – No Unlocking Tool Required
XSOL-PV003	Solar Connectors – Locking Tool Required
XSOL-PV004	Solar Connectors – Locking Tool Required
XSOL-PV005	Solar Connectors – Locking Tool Required
XSOL-PV007	Solar Connectors – Locking Tool Required