



Harness the Power of the Sun

## First Methodist, Solar System

300 E Main ST, Missoula, MT

3/9/2022

66 Module, 27,060-watt Minimum, Solar Array with SolarEdge grid tied inverter system.  
Generating approximately 34,000 kWh per year, or approximately 80% of annual consumption

### System Description:

- 66 each Solar Modules, Canadian BiHiKu CS3W Poly Crystalline, Minimum of 410 watts each, Bloomberg Tier 1 manufacturer. Positive performance tolerance -0/+5 Wp, 25 year warranty, Standard test conditions production minimums - Voc 47.6, Vmp 39.1 Isc 10.61, Imp 10.49, Module efficiency average 18.6%, 72 cell module, anodized aluminum frame, 54.9 lbs each, 83" tall by 41.3" wide by 1.5" deep.
- Two SolarEdge Grid tie Inverter, Model SE14.4KUS, 14.4 kW continuous output, 208 VAC, Maximum DC input of 19,400 watts capable, transformer less , ungrounded system for maximum 98 % efficiency and safety, Nighttime power consumption of less than 2.5 watts, Arc fault protected, rapid shutdown compliant, NEMA 3R protection for indoor or outdoor installation, UL 1741 standard utility compliance, 30.5" tall by 12.5" wide by 10.5" deep, 12 year standard warranty
- 33 each SolarEdge Optimizers, Model P-860, DC to DC converters located behind each set of two modules to maximize performance of each individual module and provide individual module monitoring. 400 watt compatible, 25 year warranty
- Monitoring Production Data displaying current and cumulative energy production, connection into owner provided household router cable for full data monitoring via internet portal
- All associated DC wiring, overcurrent protection, grounding, conduit and fittings to National electric code standards
- Utility Interconnect Net Metering Permit assistance, required first responder AC disconnect
- One year warranty on entire installation



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- Ballasted roof mount structures, Aluminum bay with stainless steel hardware, includes concrete pavers for ballast, 10 degree tilt angle, Uni-Rac system, designed to withstand 100 mph wind, eliminates roof penetrations for solar module mounting.
- Licensed electricians time and materials for AC connection work with utility grid
- City of Missoula electric permit

<b>System Cost</b>	<b>\$66,175</b>
<b>SBS Donation</b>	<b>-\$1,500</b>
	<b>Subtotal</b>
	<b>\$64,675</b>
<b>USB Grant 70% of system total</b>	<b>-\$46,322</b>
<b>Net System Cost</b>	<b>\$18,353</b>

I agree to the terms and conditions herein

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Deposit of \$3,000 places your project on our work schedule. Remaining balance due at time of installation completion. Electrical inspection and net metering permit can take up to 4 weeks after installation. Please check with your tax consultants to verify tax credit applicability.