

SOLAR METER SOCKET ADAPTER DATA OUT

The ConnectDER™ Solar Meter Socket Adapter (MSA) is designed to rapidly connect grid-ready solar PV assets to the home. The adapter is listed to UL 414, NEC compliant, and contains revenue grade CTs.



Simply Plug & Play

INTERCONNECTION FOR RESIDENTIAL SOLAR PV WITH INTEGRATED CTS

- Eliminates main panel upgrades (MPUs), service work, and replacement.
- Reduces costs and labor by streamlining CT installation, minimizing errors such as reverse polarity, and standardizing the process for a safer and more efficient installation.
- Integrated ANSI Class 0.2 revenue grade CTs with external data out port – no need to install whole home consumption CTs.
- Quick connect 20 ft data cable, 600V Outdoor rated.
- Reversible connection module with conduit entry from either side of the MSA.
- Connection module can be removed without a tool, allowing safe removal by emergency personnel and enabling easier access to the meter socket.
- Ability to interconnect Solar PV and obtain whole home current data without modifications to the main panel (including clamping CTs), negating the need to enter the home and reducing common installation errors / service calls.
- Compatible with most residential meter sockets, including ring type, ringless, and horn and lever bypass.
- Integrated over-current protection device for Solar PV (40-80A, 22k AIC).
- Suitable for use as service equipment, ANSI Form 2S / 12S in a single SKU.
- Supports Third Party Owned (TPO) systems.
- Compatible with battery energy storage systems (BESS) for retail arbitrage only (where BESS is charged exclusively by Solar PV, not by utility power). Does not support home backup.
- Backed by a 12.5-year warranty

CONTACT US TO LEARN MORE

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KEY COMPONENTS WITHIN SOLAR MSA DATA OUT



CIRCUIT BREAKER



REMOVABLE AND REVERSIBLE
PLUGGABLE CONNECTION MODULE



CURRENT
TRANSFORMERS

MECHANICAL SPECIFICATIONS

UTILITY INTERACTIVE SOURCE RATINGS

ENCLOSURE RATING	NEMA 3R	MAXIMUM POWER	15.36 KW AC
ENCLOSURE TYPE	Injection molded polycarbonate, UL 94 V0 flame rating	MAXIMUM VOLTAGE	240V
COOLING	Natural convection	MAXIMUM CONTINUOUS PV CURRENT	64A
DIMENSIONS (H X W X D)	6.7 x 6.7 x 4.6in adapter only 8.6 x 7.0 x 4.6in with connection module	CONTINUOUS COMBINED CURRENT, PV/GRID	200A
WEIGHT	4.1lb (1.9kg)	INVERTER WIRING TERMINATION	Terminal block
MOUNTING SYSTEM	Blade interface with 4-jaw or 5-jaw meter socket	GRID TERMINATION METHOD	Blade interface with meter socket for L1/L2, pigtail for neutral
ELECTRIC METER COMPATIBILITY	Type 2S and 12S	CURRENT SENSING	ANSI 0.2 accuracy class CTs for revenue grade sensing
METER SOCKET COMPATIBILITY	Ringless and ring-type, lever and horn bypass meter sockets		
DER INTERFACE POINT	Factory configured, load side of utility meter/supply side of main service disconnect		
CONDUIT CONNECTION	Single 1" NPT fitting	DATA CABLE	Quick connect, 20 feet standard, 20 AWG, 600V rated, Outdoor / UV Rated, can cut to length
TERMINAL CONNECTIONS	L1, L2, N, G; Up to 3 AWG wire	DATA CONNECTION	IP67 Rated

SAFETY INFORMATION

OVERCURRENT PROTECTION

APPLICABLE SAFETY STANDARDS	UL 414 – Meter Sockets	TYPE	Siemens Type QP, Siemens Type QH, Eaton Type BRH (22k AIC) Thermal magnetic 120/240V, externally resettable
ETL CONTROL NUMBER	5028888	OVERCURRENT RATINGS AVAILABLE	40A, 60A and 80A Standard
AMBIENT AIR OPERATING TEMPERATURE RANGE	-22°F to 149°F (-30°C to 65°C)	CURRENT INTERRUPTING RATING	22k AIC
AMBIENT AIR STORAGE TEMPERATURE RANGE	-40°F to 176°F (-40°C to 80°C)		



“ConnectDER’s Solar Meter Socket Adapter is one of these potential “game-changers” that has really caught my attention...the main distribution panels in the home are notoriously small, outdated, maxed out, recessed into the wall, not listed for a supply-side interconnection or a combination of the above – making interconnection costly and complex. Utilizing the ConnectDER adapter however can greatly simplify the process – bypassing the existing distribution panel altogether and tying directly in at the meter in both a code-compliant and utility-sanctioned manner.”

-15 Year Veteran Solar Installer

