ConnectDER V5.2 Solar Meter Socket Adapter Instruction Manual

ConnectDER

SOLAR METER SOCKET ADAPTER

Contents

V5.2 Solar Meter Socket Adapter

The ConnectDER™ Solar Meter Socket Adapter (MSA) is designed to rapidly connect grid-ready solar PV assets to the home. The adapter is UL-listed, NEC compliant, and alow-cost alternative to traditional installation methods.

SIMPLE PLUG & PLAY

INTERCONNECTION FOR RESIDENTIAL SOLAR PV

- Eliminates main panel upgrades (MPU), reduces costs, and standardizes safe, efficient installations
- Tool-free junction box removal provides easier access to meter socket for inspection and allows for safe removal by emergency personnel
- Reversible junction box with conduit entry from either side of the MSA
- Ability to interconnect Solar PV without entering the premises or accessing the main panel
- Compatible with most residential meter sockets, including lever and horn bypass
- Integrated overcurrent protection device for Solar PV (80A, 22k AIC maximum)
- Suitable for use as service equipment

Coming Soon!
www.connectder.com

INSIDE A CONNECTDER SOLAR MSA

 CIRCUIT BREAKER
 TERMINAL BLOCK

SOLAR METER SOCKET ADAPTER V5.2

MECHANICAL SPECIFICATIONS	
ENCLOSURE RATING	NEMA 3R
ENCLOSURE TYPE	Injection molded polycarbonate, UL 94 V0 flame rating
COOLING	Natural convection
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 junction box
WEIGHT	4.1lb (1.9kg)
MOUNTING SYSTEM	Blade interface with 4-jaw or 5-jaw meter socket
ELECTRIC METER COMPATIBILITY	Type 2S, type 12S
METER SOCKET COMPATIBILITY	Ringless and ring-type, lever and h orn bypass meter sockets
DER INTERFACE POINT	Factory configured, line side or load side of utility meter/supply side of main service disconnect
CONDUIT CONNECTION	Single 1” NPT fitting
TERMINAL CONNECTIONS	L1, L2, N, G; Up to 3 AWG wire
UTILITY INTERACTIVE SOURCE RATINGS	
MAXIMUM POWER	15.36 KW AC
MAXIMUM VOLTAGE	240V
MAXIMUM CONTINUOUS PV CURRENT	64A
CONTINUOUS COMBINED CURRENTPV/GRID	190A for line side 200A for load side
INVERTER WIRING TERMINATION	Terminal block
GRID TERMINATION METHOD	Blade interface with meter socket fo r L1/L2, pigtail for neutral

SAFETY INFORMATION

APPLICABLE SAFETY STANDARDS	UL 414 – Meter Sockets
UL FILE NUMBER (STANDARDS)	E361188
AMBIENT AIR OPERATING TEMPERATURE R ANGE	-22°F to 158°F (-30°C to 70°C)
AMBIENT AIR STORAGE TEMPERATURE RA NGE	-40°F to 176°F (-40°C to 80°C)

OVERCURRENT PROTECTION

TYPE	Siemens Type QP, Eaton Type BR (10k AIC) Siemens Type Q H, Eaton Type BRH (22k AIC) Thermal magnetic 120/240V, ext ernally resettable
OVERCURRENT RATINGS AVAILABLE	40A, 60A and 80A Standard
CURRENT INTERRUPTING RATING	10k AIC or 22k AIC

" "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 n both a code-compliant and utility-sanctioned manner."
– 15 Year Veteran Solar Installer

Documents / Resources

	**ConnectDER V5.2 Solar Meter Socket Adapter** [pdf] Instruction Manual V5.2 Solar Meter Socket Adapter, V5.2, Solar Meter Socket Adapter, Meter Socket Adapter, Socket Adapter, Adapter

References

- Home - ConnectDER
- User Manual