SolarEdge Home Load Controller

For North America

SEM-DCS-N08-00

SMART ENERGY

Optimize energy consumption by controlling appliance usage

- Controls dedicated permanently connected appliances and low voltage control circuits
- Controls devices for increased backup time
- Increases savings and reduces grid dependency by maximizing solar energy consumption
- Seamlessly integrates into the SolarEdge Home ecosystem with SolarEdge Home Network
- Offers a single source for warranty, support, and training, to streamline logistics and operations
- Controls 3rd-party contactors
- Switching relays support a wide AC and DC voltage range

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		UNITS
POWER		
AC Input Voltage	90 – 250	Vac
AC Frequency	60	Hz
Normally Open (NO) Contact Specifications	250Vac up to 8Aac / 30Vdc up to 8Adc	
Normally Closed (NC) Contact Specifications	250Vac up to 4Aac / 30Vdc up to 4Adc	
Relay Switching Cycles	> 20,000	
Operating Hours	50,000	hr
Installation Altitude	2000 / 6562	m / ft
Measurement Accuracy	1	%
Power Consumption	< 1.5	W
ENVIRONMENTAL		
Operating Temperature	-10 to +50 / +14 to +122	°C / °F
Storage Temperature	-20 to +60 / -4 to +140	°C / °F
Relative Humidity (non-condensing)	0 – 95	%
Ingress Protection	IP30	
DIMENSIONS		
Dimensions L x W x H	100 x 50 x 35 / 3.93 x 1.96 x 1.37 Excluding din-rail adapter	mm / in
COMMUNICATION		
Supported Communication Protocol	SolarEdge Home Network	
Device Configuration	Monitoring platform/app or SetApp; Ethernet connection is required	
Operating Frequency Range	902 – 928 (NAM)	MHz
Modulation	O-QPSK (Quadrature phase shift keying)	
EIRP with Antenna	20	dBm
TEMPERATURE SENSOR		
Ambient Temperature Sensing Accuracy	±0.5	°C
ACCESSORIES		
Included Mounting Materials	Wood screws, Double-sided tape Rail Mounting: Din-Rail adapter according to IEC/EN 60715	
STANDARD COMPLIANCE		
Applicable Safety Standards	IEC 60730-1:2013+AMD1:2015+AMD2:2020 CSV; UL 916:2021 Ed.5; UL 60730-1:2016 Ed.5; CSA E60730-1:2015 Ed.5	
EMC Standards	IEC/UL/EN 60730-1; EN 301 489-1; EN 301 489-3; EN 61000-3-2; EN 61000-3-3; FCC Part 15, Class B	
Radio Standards	EN 300 220; FCC 15.247C	
Regulation Mark	CE; ETL	

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