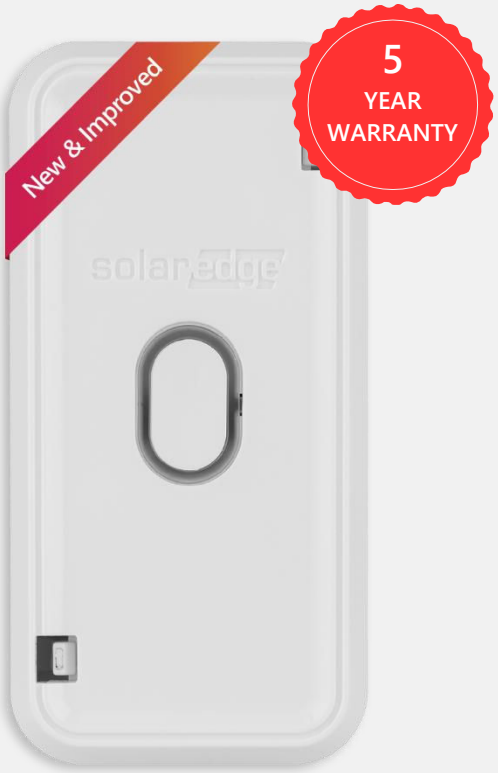
SolarEdge Home Load Controller

Model: DCS

SMART ENERGY



Optimize energy consumption by controlling appliance usage

- Controls permanently connected appliances
- Includes two simultaneously controlled dry contact switches
- Switches larger single and three phase loads via an external contactor
- Wireless connection to the inverter via SolarEdge Home Network
- Increases savings by maximizing self-consumption through improved utilization of excess PV
- Optimizes backup operation by switching off non-essential loads
- Designed to control heat pumps using a single stage SG-ready interface to enable excess PV activation and control operation during backup*
- Seamlessly integrates into the SolarEdge Home ecosystem
- Offers a single source for warranty, support, and training, to streamline logistics and operations

* Support for excess PV activation and backup control requires adding two Load Controllers.

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	SEM-DCS-R08-00	UNITS
POWER		
AC Input Voltage	90 – 250	Vac
AC Frequency	50 / 60	Hz
Normally Open (NO) Contact Specifications	250 Vac up to 8 Aac / 30 Vdc up to 8 Adc	
Normally Closed (NC) Contact Specifications	250 Vac up to 4 Aac / 30 Vdc up to 4 Adc	
Relay Switching Cycles	> 20,000	
Operating Hours	50,000	hr
Installation Altitude	2000	m
Power Consumption	< 1.5	W
ENVIRONMENTAL		
Operating Temperature	-10 to +50	°C
Storage Temperature	-20 to +60	°C
Relative Humidity (non-condensing)	0 – 95	%
Ingress Protection	IP30	
INSTALLATION SPECIFICATIONS		
Compatible SolarEdge Inverters	Residential inverters with SetApp configuration, including: SolarEdge Home Genesis Inverters (Australia only), SolarEdge Home Hub Inverters, SolarEdge Home Wave Inverters, SolarEdge Short String Inverters, SolarEdge Three Phase Inverters (SE16K and SE17K)	
Dimensions L x W x H	100 x 50 x 35 Excluding din-rail adapter	mm
COMMUNICATION		
Supported Communication Protocol	SolarEdge Home Network	
Device Configuration	Monitoring platform/app or SetApp; Ethernet connection is required	
Operating Frequency Range	863 – 870 (EU) 916 – 924 (AUS)	MHz
Modulation	O-QPSK (Quadrature phase shift keying)	
EIRP with Antenna	14 (EU) 20 (AUS)	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	

CONNECTION DIAGRAM

Contacts switch simultaneously