

FEATURES

- 85V-265V 20A
- ZigBee Pro
- 128 bit AES Security
- Surge Protected
- RoHS



DESCRIPTION

The IS-304, IS-305, and IS-306 (see part numbering) smart sockets meter plug load energy usage and provides device on/off capability. They work with other IntelliSockets™ to form a secure wireless mesh network for control and reporting of data. Each network is anchored by an IntelliGateway™ base station providing connectivity to the WattIQ cloud data collection and analysis application.

PERFORMANCE

Parameter	Symbol	Min	Typ	Max	Units
Input Voltage (RMS)	V_{IN}	85		265	V
Input Frequency		47	50/60	63	Hz
Output Current (RMS)	I_{OUT}			20	A
Power Consumption			1.4		W
Reporting Interval		4	15	60	s
Accuracy (Energy)				0.5	%
Accuracy (Voltage)				1	%
Accuracy (Interval)				1	ms
Resolution			1		W-s
RF Range			50		m
RF Transmit Power		3		13	dBm
ZigBee Channels		11		26	
ZigBee Hive		0x3000		0x3FFF	
Size		4.8 x 3.0 x 1.5			inches

PART NUMBERING

Type	Voltage	Current	Connector
IS-304	125	20	5-20
IS-304L	125	20	5-20L (Locking)
IS-305	250	15	6-15
IS-305L	250	15	6-16L
IS-305F	250	16	F (Germany)
IS-305G	250	13	G (UK)
IS-305I	250	15	I (Australia)
IS-305J	250	10	J (Swiss)
IS-306	250	20	6-20
IS-306L	250	20	6-20L (Locking)

COMPLIANCE

Agency	File
UL 61010-1, CSA C22.2 No 61010-1	E212742
ZigBee Profile (Plover)	0x114B
Contains FCC	2AECN300
Contains IC	26911-300
EU	ETS328 / ETS489

ENVIRONMENTAL

Parameter	Symbol	Min	Typ	Max	Units
Operating Temperature	T _O	0	25	40	C
Storage Temperature	T _S	-40		100	C
Relative Humidity	RH	0		95	%
Operating Altitude				2000	M
Pollution Degree		2			

If socket is used in a manner not specified, protection provided by equipment may be impaired.

PUSHBUTTON / LED

Action	Result
Press (no hold)	Toggle outlet state (on/off).
Pressed while plugging in	Ignored.
Press and hold 3+ seconds	Soft reset. Re-start socket. Similar to plugging in.
Press and hold 9+ seconds	Hard reset. All conditions are set to default. Normally this sets socket back to FACTORY channel and hive. However, if socket has been deployed on CUSTOMER channel and hive, a hard reset will then toggle between FACTORY and CUSTOMER settings. This is a useful feature to correct a socket that has been accidentally reset to FACTORY. It also provides a quick method to perform a manual self-heal. If on FACTORY, LED will be red, CUSTOMER green.

Color	Meaning
Black	Socket has no power.
Yellow	Boot-up sequence in effect. Typically ½ second duration.
Flashing Red or Green	Socket is attempting to join mesh network.
Red	Outlet is off.
Green	Outlet is on.

FCC

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The user is cautioned that changes and modifications made to the equipment without the approval of manufacturer could void the user's authority to operate this equipment.

To satisfy RF exposure requirements, this device and its antenna must operate with a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

ISED (CANADA)

This device complies with ISED Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.