SMART POWER CABLES

TECHNICAL SPECIFICATIONS

S model

R Model

P Model

COMMUNICATIONS

Operating frequency	From 860 to 930MHz. Specific frequency used varies by region.
Wireless protocol	Proprietary frequency hopping, self-configuring, load-balancing mesh network
Wired network protocol	TCP/IP (one IP address needed per Gateway), SNMP interface with support for traps
Firmware updates	Wireless over the air
Typical transmission range	10 to 50 meters indoors from any one device to any other
Antenna	Fully enclosed, fixed configuration
Cable to Gateway ratio	Up to 300 cables per gateway
Gateways per site	Unlimited
Multi-site support	Yes
Encryption	Optional 128-bit

ENVIRONMENTAL

Operating temperature	-7 to +45 C (+20 to +113F)
Operating humidity	5% to 95% non-condensing
Water and dust resistance	IP44 available on S and R models
Maximum operating altitude	2,000 meters (6,561 feet)
Power usage	Smart power cable: 0.6W Ethernet Gateway: 0.7W

LED INDICATORS

Red / Orange	Powered on
Green	Wireless communication state

SIZE AND WEIGHT

S Models under 16A	150 cm (60 in), 0.45kg (1 lbs)
S Models 16A and above	120 cm (48 in), 0.75 – 1.0kg (1.5 to 2 lbs)
R Models	Approx 120 cm (48 in), 1.5 to 3 kg (3.5 to 7 lbs)
P Models	Varies – see product manual

POWER

The frequency range of all models is 45 to 65Hz. All units measure voltage, current (A), power (W), energy (Wh), apparent power (VA), power factor, and frequency (Hz) on one to three phases and in total at +/- 1% accuracy (0.1% on Hz). Each unit also measures temperature (+/-2°C).

Model	Voltage	Amperage	Type
S	100 to 125, 200 to 240	10, 15, 16, 20, 30, 32	Single phase
R	100 to 125, 200 to 240, 120 / 208V, 200 / 385V, 220 / 400V	16, 20, 30, 32, 50, 63, 100	Single phase Three-phase wye Three-phase delta*
P	120, 120 / 208V, 240, 200 / 385V, 220 / 400V, 400 - 800**	35, 60, 100, 200 ,400 ,1000, 1500, 2000	Single phase Three-phase wye Three-phase delta*
Wireless PDU	120, 208, 120 / 208V	20,30, 60	Single phase Three-phase wye Three-phase delta*

* cross-phase voltage must be less than 240V

** monitoring units require access to a power source of 240V or less; current monitoring only.

CONNECTOR TYPES

Model	NEMA	IEC	Other*
S (all single phase)	5-15 / L5-15 5-20 / L5-20 L5-30 6-15 / L6-15 6-20 / L6-20 L6-30	60320 C13 / C14 60320 C19 / C20 60309 2P+E 6h	Schuko CEE7-7, AS/NZA 3112 2000, BS 1363A (UK), BS 546A (India, S Africa), Whip, others on request
R – single phase		60309 2P+E 6h	CS6361/6360, CS8264/8265 360_6W, 3720/3913, 3750/3933, 3720U-1/3913U-1, 3720U-2/3913U-2, 9_23U2, 9_23U0, 9_33U0, 9_53U2, 9_63U2
R – 3-phase Wye	L21-20 L21-30	60309 3P+N+E 6h	516_6W, 532_6W, 530_6W, 560_6W, 563_6W
R – 3-phase Delta	L15-20 L15-30		420_9W, 430_9W, 460_9W, 9_54U2, IBM D/3760, 3934, CS8365/8364, 7428, and others on request

* All cables are also available in a whip format (with no connectors). A "_" in a cable name indicates a placeholder for a P or C (e.g. 360_6W represents both 360P6W and 360C6W). Custom cables available.

CERTIFICATIONS (ELECTRICAL SAFETY AND RADIO EMISSIONS)

UL / ANSI 61010-1, CAN/CSA-C22.2 No. 61010-1, FCC Class B, CE (IEC/EN 61010-1:2001, ETSI EN 300 220-2, ETSI EN 301 489-3, IEC/EN 61326-1), ICASA, and certain country-specific requirements in Australia/New Zealand and the UAE.