



PRODUCT SPECIFICATION

WCS Series Power Supply

MULTIPLE 24 VAC CAMERA POWER SUPPLY, OUTDOOR



IP66

Product Features

- 4 or 20 Amp Capacities
- Outputs for 1–4 Cameras
- 120 VAC or 230 VAC Selectable Input
- 24 VAC Output or 28 VAC Output for Longer Wire Runs
- NEMA4X/IP66 Weatherproof Enclosure
- AC Power Indicator with Power On/Off Switch
- Compatible with Spectra® and Esprit™ Systems

Power supplies in the **WCS Series** offer a variety of configurations for powering up to four outdoor cameras from a single power source.

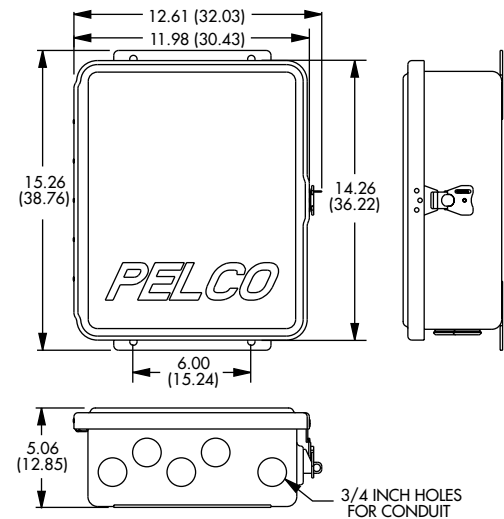
The power supplies provide 24 VAC output for 1–4 cameras. To compensate for voltage losses over long wire runs, 28 VAC outputs also are available on the **WCS4-20**. The power supplies have a selectable input of 120 or 230 VAC.

For integrated systems such as Spectra® and Esprit™, the power supplies are capable of handling pan/tilt, heater, and blower operation in addition to the camera (see application chart).

The **WCS1-4** has one fused output and is capable of handling up to 4 amps (100 vA) of total load. The **WCS4-20** is a four-output supply capable of handling up to 20 amps (480 vA) of total load. This model is available with either fuses or self-resetting circuit breakers on each output. Fuses provide a greater degree of protection for the camera because they are faster acting and more precise. Circuit breakers will self-reset when the fault is corrected, eliminating the need for replacing fuses. However, the amount of current required to trip a circuit breaker can vary as much as 100 percent, depending on temperature. In the fused models, the values of fuses can be changed depending upon the specific current requirements of the equipment connected.



WCS4-20/WCS4-20B POWER SUPPLY



NOTE: VALUES IN PARENTHESES ARE CENTIMETERS; ALL OTHERS ARE INCHES.



International Standards Organization Registered Firm ISO 9001 Quality System



TECHNICAL SPECIFICATIONS

MODELS

WCS1-4	Outdoor camera power supply, 100/120/230 VAC input. One 24/26/28 VAC output, total current capacity of 4A (100 vA).
WCS4-20	Outdoor multiple camera power supply, 120/230 VAC input. Four fused 24/28 VAC outputs, total current capacity of 20A (480 vA).
WCS4-20B	Same as WCS4-20 except has circuit breakers.

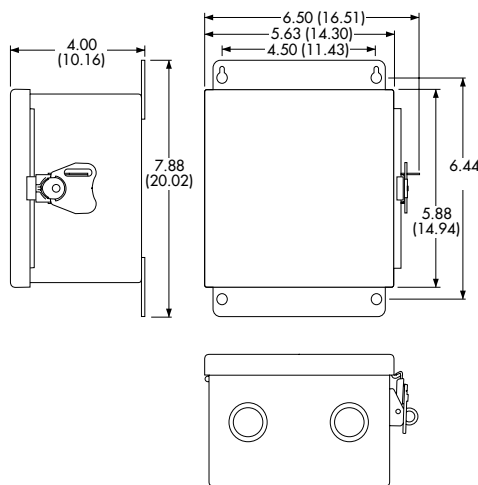
Product Capacity Chart

The chart below contains examples of the number of units that may be powered by each power supply and is based on the vA rating of each product.

Product	Power Supply Model	
	WCS1-4	WCS4-20/ WCS4-20B
CCD Camera (6 vA average)	1	4
Indoor Spectra® (30 vA)	1	4
Outdoor Spectra® (75 vA)	1	4
Outdoor DF5 (62 vA)	1	4
Esprit™ (50 vA)	1	4
24V PT780 Legacy® System (P/T, Enclosure, Rx, Camera, Defroster)		
• without heaters (90 vA)	1	4
• with heaters (140 vA)	0	3
• with heaters and P/T heater blanket (180 vA)	0	2
PS30-24 (24 vA)	1	4



WCS1-4 POWER SUPPLY



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MECHANICAL

Cable Entry	Hole plugs for 0.75-inch (1.9 cm) conduit
Latch	Stainless steel link-lock latch; can be secured with padlock (not supplied)

ELECTRICAL

Input Voltage	
WCS1-4	100/120/230 VAC, 50/60 Hz
WCS4-20/WCS4-20B	120 or 230 VAC, 50/60 Hz
Output Voltage	
WCS1-4	24/26/28 VAC
WCS4-20/WCS4-20B	24/28 VAC
Output Fuse/ Circuit Breaker Ratings	
WCS1-4	4A
WCS4-20/WCS4-20B	8A
Input Connectors	Screw-type barrier strips
Output Connectors	Screw-type barrier strips
Input Wire Size	12-16 gauge solid wire
Output Wire Size	
WCS1-4	16-20 gauge solid or stranded wire
WCS4-20/-20B	16-22 gauge solid or stranded wire

The following are the recommended maximum distances (transformer to load) and are calculated with a 10-percent voltage drop. (Ten percent is generally the maximum allowable voltage drop for AC-powered devices.) Distances are calculated in feet; values in parentheses are meters.

Recommended Wiring Distance Chart

Input Voltage	Total vA Consumed	Wire Gauge		
		20 AWG (0.5 mm ²)	18 AWG (1.0 mm ²)	16 AWG (1.5 mm ²)
24 VAC	50	56 (17)	90 (27)	143 (43)
	65	43 (13)	69 (21)	110 (33)
	75	37 (11)	60 (18)	95 (29)
	120	23 (7)	37 (11)	59 (17)
28 VAC	50	77 (23)	122 (37)	195 (59)
	65	59 (17)	94 (28)	150 (45)
	75	51 (15)	81 (24)	130 (39)
	120	32 (9)	51 (15)	81 (24)

GENERAL

Environment	Outdoor
Construction	Aluminum
Finish	Gray polyester powder coat
Unit Weight	
WCS1-4	6.4 lb (2.9 kg)
WCS4-20/4-20B	16.2 lb (7.3 kg)
Shipping Weight	
WCS1-4	8 lb (3.6 kg)
WCS4-20/4-20B	18 lb (8.1 kg) approximate

CERTIFICATIONS/RATINGS

- ◆ CE, Class B (WCS1-4); WCS4-20 and WCS4-20B pending
- ◆ UL listed to Standard 2044 (WCS1-4 only); WCS4-20 and WCS4-20B pending.
- ◆ cUL listed to CSA Standard 22.2 (WCS1-4 only); WCS4-20 and WCS4-20B pending.
- ◆ Meets NEMA 4X and IP66 Standards

Specifications subject to change without notice.
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