

StrongArm®

Reliable, low maintenance multi-lane traffic control

The preferred solution for traffic control, proven through decades of reliable service



Technical Specifications

Model	StrongArm 14F	StrongArm 14F UPS	StrongArm 20	StrongArm 20 UPS	StrongArm 28	StrongArm 28 UPS	StrongArm DOT 28	StrongArm DOT 28 UPS	StrongArm 36	StrongArm 36 UPS
Arm Length Max.	Up to 14 ft (4.3 m)		Up to 20 ft (6 m)* Side mount available for arms up to 18 ft (5.5 m)	Up to 20 ft (6 m)** Side mount available for arms up to 18 ft (5.5 m)	Up to 28 ft (8.5 m)*	Up to 28 ft (8.5 m)**	Up to 28 ft (8.5 m)		Up to 36 ft (11 m)*	Up to 36 ft (11 m)**
Arm Design	Side mount. Lighted aluminum arm with HyProtect™ breakaway arm bracket and kill switch, up to 14 ft (4.3 m)	Side mount. Aluminum oval arm with bumper, lights, HyProtect™ breakaway arm bracket & kill switch	Side mount - aluminum up to 18 ft (5.5 m), fiberglass up to 16 ft (5 m) or wood up to 14 ft (4.3 m). Center yoke mount - aluminum up to 20 ft (6 m)	Center yoke mount. Aluminum up to 24 ft (7 m), fiberglass up to 16 ft (5 m), or aluminum-fiberglass 26+ ft (8+ m)*	Center yoke mount. Aluminum up to 24 ft (7 m), fiberglass up to 16 ft (5 m), or aluminum-fiberglass 26+ ft (8+ m)**	Center yoke. Breakaway arm bracket. Aluminum arms up to 24 ft (7 m) or aluminum-fiberglass arms 26 and 28 ft (8 and 8.5 m) ***	Center yoke mount. Aluminum-fiberglass up to 36 ft (11 m)*	Center yoke mount. Aluminum-fiberglass up to 36 ft (11 m)**		
Full Open Angle	90°									
Duty Cycle	2,000 cycles/day*									
Horsepower	3/4 hp									
Drive	Hydraulic									
Open/Close Time	2 seconds to open; 3 seconds to close		3 seconds to open; 4 seconds to close		5 seconds to open; 6 seconds to close				8 seconds to open; 8 seconds to close	
Handing	Left or right		Left, right or center yoke		Center yoke					
UPS Battery Backup Cycles	StrongArm 14F UPS or optional 230V AC Power Supply w/ HyInverter AC™ **	DC Power Supply w/ HyCharger DC™ provides up to 300 cycles after an AC power loss.*	StrongArm 20 UPS or optional 230V AC Power Supply w/ HyInverter AC™	DC Power Supply w/ HyCharger DC™ provides up to 300 cycles after an AC power loss.*	StrongArm 28 UPS or optional 230V AC Power Supply w/ HyInverter AC™	DC Power Supply w/ HyCharger DC™ provides up to 300 cycles after an AC power loss.*	StrongArm DOT 28 UPS or optional 230V AC Power Supply w/ HyInverter AC™	DC Power Supply w/ HyCharger DC™ provides up to 300 cycles after an AC power loss.*	StrongArm 36 UPS or optional 230V AC Power Supply w/ HyInverter AC™	DC Power Supply w/ HyCharger DC™ provides up to 300 cycles after an AC power loss.*
Temperature Rating	-40° to 158° F (-40° to 70° C)									
Single Phase Voltages	115/208/230V 60Hz, 110/220 50Hz*	115V 60/50Hz, 23A ** or 208/230V 60/50Hz, 11.5A	115/208/230V 60Hz, 110/220V 50Hz**	115V 60/50Hz, 23A ** or 208/230V 60/50Hz, 11.5A	115/208/230V 60Hz, 110/220V 50Hz**	115V 60/50Hz, 23A ** or 208/230V 60/50Hz, 11.5A	115/208/230V 60 Hz, 110/220V 50 Hz †, 115/208/230V 60Hz, 110/220V 50Hz**	115V 60/50Hz, 23A ** or 208/230V 60/50Hz, 11.5A	115/208/230V 60Hz, 110/220V 50Hz**	115V 60/50Hz, 23A ** or 208/230V 60/50Hz, 11.5A
Three Phase Voltages	220/380V 50Hz †, 208/230/460V 60Hz, 220/380V 50Hz*	N/A	220/380V 50Hz †, 208/230/460V 60Hz, 220/380V 50Hz*	N/A	220/380V 50Hz †, 208/230/460V 60Hz, 220/380V 50Hz*	N/A	220/380V 50Hz †, 208/230/460V 60Hz, 220/380V 50Hz*	N/A	220/380V 50Hz †, 208/230/460V 60Hz, 220/380V 50Hz*	N/A
Communication	RS-232, RS-485									
User Controls	Smart Touch Controller with 70+ configurable settings. Smart Touch keypad and 32 character, OLED display or a PC using S.T.A.R.T. software.									
Relays	Three configurable user relays: one 30VDC, 3A solid state and two 250VAC, 10A electromechanical. Optional Hy8Relay™ for 8 additional relay outputs.									
Enclosure	N/A	DC Power Supply: Type 3R, 30w x 30h x 12d inch (76w x 76h x 30.5d cm)	N/A	DC Power Supply: Type 3R, 30w x 30h x 12d inch (76w x 76h x 30.5d cm)	N/A	DC Power Supply: Type 3R, 30w x 30h x 12d inch (76w x 76h x 30.5d cm)	N/A	DC Power Supply: Type 3R, 30w x 30h x 12d inch (76w x 76h x 30.5d cm)	N/A	DC Power Supply: Type 3R, 30w x 30h x 12d inch (76w x 76h x 30.5d cm)
Finish	Zinc plated with yellow powder coating						Hot dipped galvanized with stainless steel cover		Zinc plated with yellow powder coating	
ETL Listed (UL 325)	Usage Class I, II, III, IV									
Warranty	5 year									

* The operator's normal duty cycle and the actual number of arm cycles available from battery depends upon arm length/weight, battery size, state of charge and health, ambient temperature, accessory power draw and frequency of arm cycles during power outage. ** Arms 20 ft (6 m) or longer require counterweights.

*** Arms 30 ft (9 m) or longer require cable tensioner and arm stabilizer kit and additional counterweights

† Refer to Installed Options on pricing for all 50Hz voltages, which are special order.

†† 115V DC Power Supply requires a 30A branch circuit. Choose voltage with care as chargers are not field convertible.

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