

Weld Set Reference: Z163924
Power Wave® C300



§ Advanced Module Required
‡ STT® or Advanced Module Required

Δ Tandem Controller Required

* Range is limited by power source rating,
module rating, or feeder configuration

	Type	Size	Procedure	Waveform	Gas Type	Mode #	Arc Control	Max. Range (*)
	All	All		GMAW CV	STD CV		5	Pinch
			GMAW Power	Power Mode®		40	Pinch	0.1 - 9 kW
GMAW	Steel	0.8 mm	GMAW CV	CV	CO ₂	93	Pinch	75 - 700 ipm
					Argon Mix	94		75 - 700 ipm
			GMAW Pulse	Pulse Precision Pulse™	Argon Mix	95	UltimArc®	65 - 700 ipm
					Argon Mix	410		100 - 600 ipm
		0.9 mm	GMAW CV	CV	CO ₂	138	Pinch	50 - 700 ipm
					Argon Mix	139		50 - 700 ipm
			GMAW Pulse	Pulse RapidArc® Precision Pulse™	Argon Mix	140	UltimArc®	60 - 700 ipm
					Argon Mix	141		75 - 700 ipm
		Argon Mix	Precision Pulse™	Argon Mix	411	100 - 600 ipm		
				Argon Mix	412	75 - 600 ipm		
		1.0 mm	GMAW CV	CV	CO ₂	10	Pinch	50 - 700 ipm
					Argon Mix	11		50 - 700 ipm
	GMAW Pulse		Pulse RapidArc® Precision Pulse™	Argon Mix	12	UltimArc®	60 - 200 ipm	
				Argon Mix	13		60 - 200 ipm	
	Argon Mix	Precision Pulse™	Argon Mix	412	75 - 600 ipm			
	1.2 mm	GMAW CV	CV	CO ₂	20	Pinch	50 - 400 ipm	
				Argon Mix	21		50 - 393 ipm	
		GMAW Pulse	Pulse RapidArc® Precision Pulse™	Argon Mix	22	UltimArc®	50 - 437 ipm	
Argon Mix				18	75 - 535 ipm			
Argon Mix	Precision Pulse™	Argon Mix	413	75 - 483 ipm				
Stainless	0.8 mm	GMAW CV	CV	Argon Mix	61	Pinch	100 - 700 ipm	
				He Ar CO ₂	63		100 - 700 ipm	
		GMAW Pulse	Pulse	He Ar CO ₂	64	UltimArc®	100 - 700 ipm	
				Argon Mix	66		100 - 700 ipm	
	0.9 mm	GMAW CV	CV	Argon Mix	29	Pinch	75 - 700 ipm	
				Argon Mix	30		UltimArc®	60 - 700 ipm
		GMAW Pulse	Pulse Precision Pulse™	Argon Mix	421	100 - 600 ipm		
				Argon Mix	422	60 - 600 ipm		
	1.0 mm	GMAW CV	CV	Argon Mix	31	Pinch	75 - 700 ipm	
				He Ar CO ₂	33		75 - 599 ipm	
		GMAW Pulse	Pulse Precision Pulse™	He Ar CO ₂	34	UltimArc®	60 - 693 ipm	
				Argon Mix	36		60 - 692 ipm	
Argon Mix	Precision Pulse™	Argon Mix	422	UltimArc®	60 - 600 ipm			
1.2 mm	GMAW CV	CV	Argon Mix	41	Pinch	75 - 413 ipm		
			He Ar CO ₂	43		75 - 395 ipm		
	GMAW Pulse	Pulse	He Ar CO ₂	44	UltimArc®	50 - 393 ipm		
			Argon Mix	46		50 - 409 ipm		
Argon Mix	Precision Pulse™	Argon Mix	423	UltimArc®	50 - 400 ipm			
Metal Core	1.2 mm	GMAW CV	CV	Argon Mix	81	Pinch	50 - 414 ipm	
		GMAW Pulse	Pulse	Argon Mix	82	UltimArc®	50 - 426 ipm	
	1.4 mm	GMAW Pulse	Pulse	Argon Mix	84	UltimArc®	50 - 286 ipm	

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GMAW	Aluminum 4XXX	1.0 mm	GMAW CV	CV	Argon	148	Pinch	125 - 700 ipm	
			GMAW Pulse	Pulse	Argon	149	UltimArc®	125 - 700 ipm	
				CC Pulse	Argon	150		125 - 700 ipm	
				GMAW Pulse on Pulse [§]	Pulse on Pulse [§]	Argon	98	Frequency	100 - 500 ipm
		1.2 mm	GMAW CV	CV	Argon	71	Pinch	125 - 500 ipm	
			GMAW Pulse	Pulse	Argon	72	UltimArc®	85 - 567 ipm	
				CC Pulse	Argon	69		85 - 567 ipm	
				GMAW Pulse on Pulse [§]	Pulse on Pulse [§]	Argon	99	Frequency	85 - 500 ipm
		Aluminum 5XXX	1.0 mm	GMAW CV	CV	Argon	151	Pinch	175 - 700 ipm
	GMAW Pulse			Pulse	Argon	152	UltimArc®	125 - 700 ipm	
				CC Pulse	Argon	153		125 - 700 ipm	
				GMAW Pulse on Pulse [§]	Pulse on Pulse [§]	Argon	101	Frequency	140 - 700 ipm
	1.2 mm		GMAW CV	CV	Argon	75	Pinch	125 - 700 ipm	
			GMAW Pulse	Pulse	Argon	76	UltimArc®	85 - 700 ipm	
				CC Pulse	Argon	70		85 - 700 ipm	
				GMAW Pulse on Pulse [§]	Pulse on Pulse [§]	Argon	102	Frequency	100 - 600 ipm
	SiBr		1.0mm	GMAW Pulse	Pulse	Argon	192	UltimArc®	80 - 653 ipm
		1.2mm	GMAW Pulse	Pulse	Argon	191	UltimArc®	50 - 470 ipm	
	Cu	1.0mm	GMAW Pulse	Pulse	Argon Helium	198	UltimArc®	75 - 500 ipm	
		1.2mm	GMAW Pulse	Pulse	Argon Helium	196	UltimArc®	75 - 433 ipm	
	NiCr	1.0mm	GMAW Pulse	Pulse	Ar/ Ar He	170	UltimArc®	75 - 700 ipm	
1.2mm		GMAW Pulse	Pulse	Ar/ Ar He	175	UltimArc®	75 - 650 ipm		
FCAW	Flux Core	All	FCAW-S	STD CV	NA	6	Pinch	10 - 45 V	
			FCAW-G	STD CV		7	Pinch	10 - 45 V	
	1.2 mm	FCAW-G		CV	CO ₂	90	Pinch	175 - 600 ipm	
					Argon Mix	91		175 - 567 ipm	
SMAW	NA	NA	DCEP SMAW	SMAW Soft	NA	1	Arc Force, Hot Start	15 - 300 A	
				SMAW Crisp	NA	2	Arc Force, Hot Start	15 - 300 A	
				SMAW Pipe	NA	4	Arc Force	50 - 250 A	
GTAW	NA	NA	DCEN GTAW	GTAW Touch Start	Argon	3	Hot Start	5 - 300 A	
				GTAW-P	Argon	8	Hot Start, Frequency, Background	5 - 300 A	
CAG	NA	NA	CAG	CAG	Air	9		60 - 300 A	