



iMP—Intelligent Medium Power

Redefining the word flexibility, Astec Power's Intelligent MP (iMP) provides innovative, full I²C control integrated within a medically-approved, high density, RoHS compliant modular power supply system. The product offers up to 50 percent higher power density over the existing industry-leading MP series, with no increase in cost. With over 200 million standard combinations and flexible customer-programmable features, the iMP is truly ahead of its time.



Features ▶

- Full medical EN 60601 approval
- Industrial temperature range
- Configurable current share
- Voltage adjustment on all outputs
- Up to 50 percent increase in power density

Benefits ▶

- Intelligent control monitoring
- High reliability—500K hours MTBF
- Programmable flexibility
- Optional extra hold PU module for SEMI F47 compliance
- Millions of standard configurations

Applications ▶

- Instrumentation
- Test equipment
- Medical equipment
- Data storage
- Industrial controls

Product Specifications ▶

Output Module Line-up	Module Code	1	2	3	4		None				
	Module Type	Single	Single	Single	Dual		Triple**				
	Max. output power	210W	360W	750W	144W		36W				
	Max. output current	35A	60A	150A	10A		2A				
	Output voltages available*	2V–60V	2V–60V	2V–60V	5V, 12V–15V, 28V–30V	2V–6V, 12V–15V, 28V–30V	8V–15V	8V–28V	2V–28V		
	Standard voltage increments	25	25	25	19	NA	18	NA	NA		
	Remote sense	Yes	Yes	Yes	Yes	Yes	No	No	No		
	Remote margin	Yes	Yes	Yes	No	No	No	No	No		
	V-program–I ² C control	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
	Active current share	Yes	Yes	Yes	Yes	No	No	No	No		
	Module inhibit–I ² C control	NA	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
	Module inhibit–analog	NA	Yes	Yes	No	No	No	No	No		
	Over-voltage/over-current protection	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
	Minimum load required	No	No	No	No	No	No	No	No		
	Slots occupied in any iMP case	1	2	3	1		1				
Output Module Voltage/Current	Voltage (V)	Voltage Code	Single Output Module Code (A)			Dual Output (A)		Triple Output (A)			I ² C Adjustment Ranges
			1	2	3	V1	V2	V1	V2	V3	
	2	A	35	60	150	NA	10	NA	NA	2	1.8–6.1
	2.2	B	35	60	150	NA	10	NA	NA	2	
	3	C	35	60	150	NA	10	NA	NA	2	
	3.3	D	35	60	150	NA	10	NA	NA	2	
	5	E	35	60	150	10	10	NA	NA	2	
	5.2	F	35	60	150	NA	10	NA	NA	2	
	5.5	G	34	58	137	NA	10	NA	NA	2	5.4–13.2
	6	H	23	42	80	NA	10	NA	NA	2	
	8	I	20	36	80	NA	NA	1	1	1	
	10	J	18	32	75	NA	NA	1	1	1	
	11	K	17	31	68	NA	NA	1	1	1	
	12	L	17	30	62.5	10	4	1	1	1	
	14	M	14	21	53.5	9	4	1	1	1	12.6–22.0
	15	N	14	20	50	8	4	1	1	1	
	18	O	11	19	41.6	NA	NA	NA	0.5	0.5	
	20	P	10.5	18	37.5	NA	NA	NA	0.5	0.5	
	24	Q	8.5	15	31.3	4	2	NA	0.5	0.5	
	28	R	6.7	12.8	26.8	3	2	NA	0.5	0.5	
	30	S	6.5	12	25	NA	NA	NA	NA	NA	21.6–39.6
	33	T	6.2	11	22.7	NA	NA	NA	NA	NA	
	36	U	5.8	10	20.8	NA	NA	NA	NA	NA	
	42	V	4.2	7.5	17.9	NA	NA	NA	NA	NA	
	48	W	4	7.5	15.6	NA	NA	NA	NA	NA	
	54	X	3.7	6	13.9	NA	NA	NA	NA	NA	
	60	Y	3.5	6	12.5	NA	NA	NA	NA	NA	37.8–60.0
	Non-std***	Z	Special voltage—consult factory for specifications								

*Programmable **Triple output module is not programmable through I²C ***Increments of current not shown can be achieved by paralleling modules (add currents of each module selected)

Note: All parts are configurable to your application; please contact Arrow for more information.

Arrow Industrial Selector Guide

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