



# Medical Adaptor

6W~220W Single Output



## Power Supply Features

- Universal AC input / Full range
- **Medical safety approved (2xMOPP)**
- **No load power consumption <0.1W (<0.3W for GSM06)**
- **Energy Efficiency Level VI (GSM06 & 18-36W 5~9V level V)**
- Meets EISA 2007 (Energy Independence and Security Act)
- 2 pole USA / EURO plug or IEC320-C8
- Class II power (without earth pin) – suitable for BF applications with appropriate system consideration

• **GEM12I, GEM18I, GEM30I, GEM40I – 12W, 18W, 30W, 40W universal adaptors now available!**

- **Optional locking DC plug also available**
- Protection: Short circuit / Overload / Over voltage
- Low leakage current <50µA
- LED indicator for power on (except for GSM06)
- Certificates: B-Type: UL / CUL / TUV / CB / FCC / CE  
U-Type: UL / CUL / CB / FCC  
E-Type: TUV / CB / CE



**18~36W 12~48V**

• **3 year warranty**



## General Specifications (Please refer to [www.procontechology.com.au](http://www.procontechology.com.au) for detailed specs)

Order No.	GSM06	GSM18	GSM25	GSM36
AC input voltage range	85~264VAC; 113~370VDC			
AC inrush current (max.)	Cold start, 30A at 230VAC		Cold start, 55A at 230VAC	
Overload protection	Range	>105% rated output power		
	Type	Hiccup mode, auto-recovery		
Over voltage protection	110~140%	105~135% rated output voltage, shut down o/p voltage, re-power on to recover		
Setup, rise, hold-up time	1000ms, 50ms, 12ms		500ms, 30ms, 16ms at 230VAC input	
Withstand voltage	I/P-O/P: 5656VDC		I/P-O/P: 4kVAC	
Working temperature	0°C ~ +50°C		-25°C ~ +60°C (refer to output derating curve)	
Safety standards	B-Type (except for GSM06): ANSI/AAMI ES60601-1 / <b>ES60601-1-11</b> , TUV EN60601-1 / <b>EN60601-1-11</b> approved U-Type: ANSI/AAMI ES60601-1, <b>ES60601-1-11</b> approved E-Type: TUV EN60601-1 / <b>EN60601-1-11</b> approved			
EMC standards	B-Type(except for GSM06): EN55011 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61204-3, EN60601-1-2 medical level, FCC Part 15 class B U-Type: FCC Part 15 class B E-Type: EN55011 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61204-3, EN60601-1-2 medical level			
Length of output cable	120cm of UL2468, 22AWG for 5~12V; 180cm of UL2468, 24AWG for 15~24V		120cm of UL1185, 16AWG for GSM18/25/36 5~9V; 180cm of UL1185, 16AWG for GSM25 12V and GSM36 12~48V; 180cm of UL1185, 18AWG for GSM18 12~48V and GSM25 15~48V	
Standard DC plug	P1J: 2.1x5.5x11mm/C+, tuning fork type (other plugs available to special order)			
Dimension (LxWxH)	32x66x42.5mm		79x54x33mm	

## Wall-mounted — 6W

Order No.	Output	Tol.	R & N	Eff.	Order No.	Output	Tol.	R & N	Eff.
GSM06□05-P1J	5V, 0~1.20A	±5%	50mV	68%	GSM06□15-P1J	15V, 0~0.40A	±5%	120mV	79%
GSM06□06-P1J	6V, 0~1.00A	±5%	50mV	74%	GSM06□18-P1J	18V, 0~0.33A	±5%	150mV	80%
GSM06□07-P1J	7.5V, 0~0.80A	±5%	80mV	74%	GSM06□24-P1J	24V, 0~0.25A	±4%	180mV	82%
GSM06□09-P1J	9V, 0~0.66A	±5%	80mV	76%	□ = U / E; U: American 2P, E: European 2P				
GSM06□12-P1J	12V, 0~0.50A	±5%	100mV	77%					

## Desktop / Wall-mounted — 18W

Order No.	Output	Tol.	R & N	Eff.	Order No.	Output	Tol.	R & N	Eff.
GSM18□05-P1J	5V, 0~3.00A	±5%	60mV	80%	GSM18□18-P1J	18V, 0~1.00A	±3%	150mV	86%
GSM18□07-P1J	7.5V, 0~2.00A	±5%	80mV	83%	GSM18□24-P1J	24V, 0~0.75A	±2%	180mV	87%
GSM18□09-P1J	9V, 0~2.00A	±5%	80mV	84%	GSM18□48-P1J	48V, 0~0.375A	±2%	240mV	88%
GSM18□12-P1J	12V, 0~1.50A	±3%	120mV	85%	□ = B / U / E; B: IEC320-C8; U: American 2P; E: European 2P				
GSM18□15-P1J	15V, 0~1.20A	±3%	120mV	85.5%					

## Desktop / Wall-mounted — 25W

Order No.	Output	Tol.	R & N	Eff.	Order No.	Output	Tol.	R & N	Eff.
GSM25□05-P1J	5V, 0~4.00A	±6%	60mV	80%	GSM25□18-P1J	18V, 0~1.38A	±3%	150mV	86%
GSM25□07-P1J	7.5V, 0~2.93A	±5%	80mV	83%	GSM25□24-P1J	24V, 0~1.04A	±2%	180mV	87%
GSM25□09-P1J	9V, 0~2.77A	±5%	80mV	84%	GSM25□48-P1J	48V, 0~0.52A	±2%	240mV	88%
GSM25□12-P1J	12V, 0~2.08A	±3%	120mV	86%	□ = B / U / E; B: IEC320-C8; U: American 2P; E: European 2P				
GSM25□15-P1J	15V, 0~1.66A	±3%	120mV	86%					

## Desktop / Wall-mounted — 36W

Order No.	Output	Tol.	R & N	Eff.	Order No.	Output	Tol.	R & N	Eff.
GSM36□05-P1J	5V, 0~4.50A	±6%	80mV	80%	GSM36□18-P1J	18V, 0~2.00A	±3%	150mV	87%
GSM36□07-P1J	7.5V, 0~4.32A	±5%	80mV	83%	GSM36□24-P1J	24V, 0~1.50A	±2%	180mV	87%
GSM36□09-P1J	9V, 0~4.00A	±5%	80mV	84%	GSM36□48-P1J	48V, 0~0.75A	±2%	240mV	88%
GSM36□12-P1J	12V, 0~3.00A	±3%	120mV	86%	□ = B / U / E; B: IEC320-C8; U: American 2P; E: European 2P				
GSM36□15-P1J	15V, 0~2.40A	±3%	120mV	87%					



# Medical Adaptor 6W~220W Single Output



**GSM160A/B, GSM220A/B - 160W and 220W units now available!**



GSM40A/60A



GSM40B/60B



GSM90A/B



GSM120A/B

## Power Supply Features

- Universal AC input / Full range
- **Medical safety approved (2xMOPP)**
- **No load power consumption < 0.1W (<0.15W for GSM90B/120B)**
- Energy efficiency Level VI (except GSM40/60 5~9V level V)
- Meets EISA 2007 (Energy Independence and Security Act)
- High efficiency up to 91.5%
- Low leakage current < 50µA (<100µA for GSM40A/60A/90B/120B)

• Suitable for BF (connection to patient) with appropriate system considerations

- Active Power Factor Correction (90W and greater)
- A-Type: Class I (with earth Pin)
- B-Type: Class II (w/o earth Pin)
- Protection: Short circuit / Overload / Over voltage / Over temperature (except GSM40)
- LED indicator for power on
- **3 year warranty**



12~48V only!

## General Specifications (Please refer to [www.procontechology.com.au](http://www.procontechology.com.au) for detailed specs)



Order No.	GSM40	GSM60	GSM90	GSM120
AC input voltage range	80~264VAC; 113~370VDC			
AC inrush current (max.)	Cold start, 65A at 230VAC			Cold start, 70A at 230VAC
Overload protection	Range	105~160% rated output power		110~150%
	Type	Hiccup mode, auto-recovery		
Over voltage protection	Range	105~135% rated output voltage		
	Type	Shut down o/p voltage, re-power on to recover		
Setup, rise, hold-up time	1000ms, 30ms, 50ms		1000ms, 20ms, 20ms	1000ms, 30ms, 20ms
Withstand voltage	A-Type: I/P-O/P: 4kVAC, I/P-FG: 2kVAC, O/P-FG: Short B-Type: I/P-O/P: 4kVAC			
Working temperature	-30°C ~ +60°C (refer to output derating curve)			
Safety standards	ANSI/AAMI ES60601-1 / <b>ES60601-1-11*</b> , TUV EN60601-1 / <b>EN60601-1-11*</b> approved. *B-type only			
EMC standards	EN55011 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61204-3, EN60601-1-2 medical level, FCC Part 15 class B			
Length of output cable	100cm of UL2464, 16AWG for GSM40 5~7.5V and GSM60 5~15V 100cm of UL1185, 16AWG for GSM40 9~12V 150cm of UL1185, 16AWG for GSM40 15~48V and GSM60 18~48V		100cm of UL1185, 14AWG for 12~15V; 120cm of UL1185, 16AWG for 19~48V	120cm of UL2464, 18AWGx4C
Standard DC plug (refer to plug list)	P1J: 2.1øx5.5øx11mm/C+, tuning fork type		P1M: 2.5øx5.5øx11mm/C+ tuning fork type	R7B: power DIN 4P with lock type
Dimension (LxWxH)	125x50x31.5mm		145x60x32mm	167x67x35mm

## Desktop (IEC320-C14/Class I) – 40W

Order No.	Output	Tol.	R&N	Eff.
GSM40A05-P1J	5V, 0.1~5.00A	±5%	100mV	81.0%
GSM40A07-P1J	7.5V, 0.1~5.34A	±5%	100mV	85.5%
GSM40A09-P1J	9V, 0.1~4.45A	±5%	100mV	86.0%
GSM40A12-P1J	12V, 0.1~3.34A	±3%	100mV	88.0%
GSM40A15-P1J	15V, 0.1~2.67A	±3%	100mV	88.5%
GSM40A18-P1J	18V, 0.1~2.22A	±3%	150mV	89.5%
GSM40A24-P1J	24V, 0.1~1.67A	±2.5%	180mV	90.0%
GSM40A48-P1J	48V, 0.1~1.84A	±2.5%	240mV	91.0%

## Desktop (IEC320-C8/Class II) – 40W

Order No.	Output	Tol.	R&N	Eff.
GSM40B05-P1J	5V, 0.1~5.00A	±5%	100mV	81.0%
GSM40B07-P1J	7.5V, 0.1~5.34A	±5%	100mV	85.5%
GSM40B09-P1J	9V, 0.1~4.45A	±5%	100mV	86.0%
GSM40B12-P1J	12V, 0.1~3.34A	±3%	100mV	88.0%
GSM40B15-P1J	15V, 0.1~2.67A	±3%	100mV	88.5%
GSM40B18-P1J	18V, 0.1~2.22A	±3%	150mV	89.5%
GSM40B24-P1J	24V, 0.1~1.67A	±2.5%	180mV	90.0%
GSM40B48-P2J	48V, 0.1~0.84A	±2.5%	240mV	91.0%

## Desktop (IEC320-C14/Class I) – 60W

Order No.	Output	Tol.	R&N	Eff.
GSM60A05-P1J	5V, 0.1~6.00A	±5%	100mV	81.5%
GSM60A07-P1J	7.5V, 0.1~6.00A	±5%	100mV	86.0%
GSM60A09-P1J	9V, 0.1~6.00A	±5%	100mV	87.5%
GSM60A12-P1J	12V, 0.1~5.00A	±3%	100mV	88.0%
GSM60A15-P1J	15V, 0.1~4.00A	±3%	100mV	88.5%

Order No.	Output	Tol.	R&N	Eff.
GSM60A18-P1J	18V, 0.1~3.33A	±3%	150mV	89.0%
GSM60A24-P1J	24V, 0.1~2.50A	±3%	180mV	90.0%
GSM60A48-P1J	48V, 0.1~1.25A	±2.5%	240mV	91.0%

## Desktop (IEC320-C8/Class II) – 60W

Order No.	Output	Tol.	R&N	Eff.
GSM60B05-P1J	5V, 0.1~6A	±5%	100mV	81.0%
GSM60B07-P1J	7.5V, 0.1~6A	±5%	100mV	86.0%
GSM60B09-P1J	9V, 0.1~6A	±5%	100mV	87.5%
GSM60B12-P1J	12V, 0.1~5A	±3%	100mV	88.0%
GSM60B15-P1J	15V, 0.1~4A	±3%	100mV	88.5%
GSM60B18-P1J	18V, 0.1~3.33A	±3%	150mV	89.0%
GSM60B24-P1J	24V, 0.1~2.5A	±3%	180mV	90.0%
GSM60B48-P2J	48V, 0.1~1.25A	±2.5%	240mV	91.5%

## Desktop (IEC320-C8/Class II) – 90W

Order No.	Output	Tol.	R&N	Eff.
GSM90B12-P1M	12V, 0~6.67A	±5%	120mV	88.0%
GSM90B15-P1M	15V, 0~6.00A	±5%	150mV	89.0%
GSM90B19-P1M	19V, 0~4.74A	±4%	180mV	89.0%
GSM90B24-P1M	24V, 0~3.75A	±3%	200mV	90.0%
GSM90B48-P1M	48V, 0~1.87A	±2.5%	240mV	91.0%

## Desktop (IEC320-C8/Class II) – 120W

Order No.	Output	Tol.	R&N	Eff.
GSM120B12-R7B	12V, 0~8.5A	±5%	120mV	88.0%
GSM120B15-R7B	15V, 0~7.00A	±5%	150mV	89.0%
GSM120B20-R7B	20V, 0~6.00A	±5%	180mV	89.0%
GSM120B24-R7B	24V, 0~5.00A	±3%	200mV	90.0%
GSM120B48-R7B	48V, 0~2.50A	±2.5%	240mV	91.5%