

Base Station Power Supply & Battery Charger

240V Power Supplies



The SME240 series power supplies have been designed specifically for telecommunications applications demanding high reliability, low noise, fully automatic battery backup, battery protection and full protection of the output. Ideal in remote sites and with a host of protection features, the units are safe and reliable in any application.

Features:

- Low noise output, ideal for telecommunications applications
- Lighter and more compact than comparable linear power supplies
- Mains failure and battery reverse polarity alarm output
- Convenient plug in output connector
- 5 year warranty
- Industry standard IEC input connector
- C-Tick approved (EMI/EMC)

Enhanced features of the SME240-12-20/SME240-24-10 include:

- 20A supply with 10A battery charge (suits batteries up to 200Ah)
- Fan forced cooling with MTBF in excess of 75,000 hours
- Data connector, for voltage adjustment
- Optional external battery temperature sensor



SME240-12-10 / SME240-25-5



SME240-12-20 / SME240-24-10

Specifications

Model Number	SME240-12-10	SME240-24-5	SME240-12-20	SME240-24-10
Input Voltage VAC (Hz)	200-265 (50 Hz)			
Output Voltage V (fact. set)	13.8 ($\pm 0.15v$)	27.6 ($\pm 0.15v$)	13.8 ($\pm 0.15v$)	27.6 ($\pm 0.15v$)
Output Voltage V adjustable	12 – 14	24 – 28	12-14	24-28
Output Ripple Voltage $mVp-p$	< 20		< 40	
Output Current Max A	10	5	20	10
Over Voltage Protection V	16	32	16	32
Load Regulation 1	$\pm 0-2\%$ from set point taking into account all of line and load regulation and temperature coefficient when load powered by power supply			
Load Regulation 2	$+0-2\%$ of battery terminal voltage when load powered by battery			
Output Power W	140		280	
Efficiency Typically	90%		85%	
Battery Charging Algorithm	Float		Float with 15min boost every 24hr	
Battery Charge Current Max A	10	5	10	5
Battery Disconnect V	10.5	21	10.5	21
Battery Reconnect V	$>11.9 \pm 0.3V$	$>23.8 \pm 0.3V$	$>11.9 \pm 0.3V$	$>23.8 \pm 0.3V$
Battery Hysteresis V typical	1.7	3.0	1.5	1.5
Battery Fuse	15A, 32 VDC	10A, 32 VDC	Electronic	
Operating Environment	0-50°C Ambient Convection Cooled		0-50°C Ambient Fan Forced thermally controlled	
Alarm	Normal Closed contact 60V @ 0.2A			
Dimensions H x W x D in mm	224 x 59 x 111 (excl. protrusions)		224 x 59 x 151 (excl. protrusions)	
Weight kg	1.0		1.5	
Compliance	AS3260, AS3548, ACA, EMC, C-Tick Mark			
Supplied with	Instruction sheet, 2M 240VAC IEC cable, DC/Battery connector			
Options	Spare DC connector		Spare DC Connector, Data Connector, External Battery Temp Sensor	