## Portable AC power station for sonar flow meters (S) EXPRO



### Ordinary location rated 230VAC power source

Expro's portable AC power station is a standalone battery powered unit which contains a DC to AC power inverter to convert 12VDC to 230VAC at up to 1,000 watts (VA).

The unit is intended for temporary use to power Expro's ActiveSONAR™ and PassiveSONAR™ meters, and support equipment (laptops) for periods of up to 24 hours on one battery charge. It contains space and mounting straps for a sealed rechargeable lead-acid battery with circuitry to convert the DC power source to 50Hz AC power. A battery charging circuit is also included for recharging the battery from AC mains power.

The unit is ordinary location rated for use in non-hazardous areas, and includes a protective case for shipping and transportation.

Due to weight and shipping restrictions, it is recommended that the sealed lead-acid battery required for operation of the unit be sourced locally in the geography where the unit will be used.

Provides 230VAC power (powers one sonar flow meter and laptop computer for up to 24 hours)

Capable of providing up to 1,000 watts (VA) power

UK-type AC plug built-in (additional plug adapters included)

Built-in AC mains (180-165 VAC) powered charger for recharging battery

LED indicator for battery charge state

Two USB charge ports for charging USB devices



# Portable AC power station for sonar flow meters (S) EXPRO



## Ordinary location rated 230VAC power source

Parameter         Specifications         Comments           Inverter section         12 volts DC nominal         1.000 membra           Input voltage         12 volts DC nominal         1.000 membra           Continuous power         1.000 watts         1.000 watts           Surge power         2,000 watts         1.000 membra           No load power dissipation         7.2 watts         1.000 membra           Low battery shutdown         10.0 +/-0.5 volts DC         1.000 membra           Low battery shutdown         10.0 +/-0.5 volts DC         1.000 membra           Charger section         1.000 membra         1.000 membra           Imput voltage         230 volts AC (180-265 VAC)         45-66 Hz           Output current         1.000 amps (@12V)         1.000 membra           Battery type         Lead-acid         1.000 membra           Charging type         3-stage         1.000 membra           Maximum battery capacity         1.000 amp hours         1.000 membra           Environmental/mechanical         1.000 membra         1.000 membra           Portability features         Equipped with telescopic handle and wheels         1.000 membra           Over-temperature shutdown         +55°C +/-5°C         1.000 membra         1.000 membra	Technical specifications:		
Input voltage	Parameter	Specifications	Comments
230 volts AC +/-8%   Modified sine wave, 50Hz +/-3%	Inverter section		
Modified sine wave, 50Hz +/-3%  Continuous power  1,000 watts  Surge power  2,000 watts  No load power dissipation  7.2 watts  Low battery shuldown  10.5 +/-0.5 volts DC  Charger section  Input voltage  230 volts AC (180-265 VAC)  45-65 Hz  Output current  10 amps (@12V)  Battery type  Lead-acid  Charging type  3-stage  Maximum battery capacity  100 amp hours  Environmental/mechanical  Portability features  Equipped with telescopic handle and wheels  Body style ATU or ATO/ATC  EMI P/N EEE00250-0001  Certification  CE marked  Dimensions (power source unit)  (h x   x w)  Dimensions (case)  (h x   x w)  Weight (unit with out battery)  Weight (unit with out battery)  Weight (unit mit noaw with battery)  Battery type  12 volt sealed deep cycle lead-acid  (AGM or SLA or VRLA or gel cell)  Battery dimensions  Battery denessions  Eminals sized for M8 bolt/nut  Terminals plus case height 265mm (10.5°) maximum  Terminals sized for M8 bolt/nut	Input voltage	12 volts DC nominal	
Continuous power 1,000 watts  Surge power 2,000 watts  No load power dissipation 7.2 watts  Low battery alarm 10.5 +/-0.5 volts DC  Low battery shutdown 10.0 +/- 0.5 volts DC  Charger section  Input voltage 230 volts AC (180-265 VAC) 45-65 Hz  Output current 10 amps (@12V)  Battery type Lead-acid Charging type 3-stage  Maximum battery capacity 100 amp hours  Environmental/mechanical  Portability features Equipped with telescopic handle and wheels For use on smooth surfaces only Over-temperature shutdown 458mm x 419mm x 356mm (fix x w) 22.75" x 17" x 18.5"  Weight (unit without battery) 10kg (22lbs)  Weight (unit with 100AH battery) 41kg (89lbs)  Battery roapacity 100 AH maximum 100AH maximum 1	Output voltage	230 volts AC +/-8%	
Surge power 2,000 watts  No load power dissipation 7.2 watts  Low battery shutdown 10.5 +/-0.5 volts DC  Charger section		Modified sine wave, 50Hz +/-3%	
No load power dissipation 7.2 watts  Low battery alarm 10.5 +/-0.5 volts DC  Low battery shutdown 10.0 +/-0.5 volts DC  Charger section	Continuous power	1,000 watts	
Low battery alarm         10.5 ±/-0.5 volts DC           Low battery shutdown         10.0 ±/- 0.5 volts DC           Charger section         230 volts AC (180-265 VAC)           Input voltage         230 volts AC (180-265 VAC)           45-65 Hz         45-65 Hz           Output current         10 amps (@12V)           Battery type         Lead-acid           Charging type         3-stage           Maximum battery capacity         100 amp hours           Environmental/mechanical         For use on smooth surfaces only           Portability features         Equipped with telescopic handle and wheels         For use on smooth surfaces only           Over-temperature shutdown         +55°C +/-5°C         EMI P/N EEE00250-0001           Fuses         32V, 40A blade fuses         EMI P/N EEE00250-0001           Certification         CE marked         EMI P/N EEE00250-0001           Obimensions (power source unit) (h x l x w)         456mm x 419mm x 356mm         EMI P/N EEE00250-0001           Dimensions (case) (h x l x w)         580mm x 432mm x 470mm         470mm         470mm           Usely (unit without battery)         10kg (22lbs)         41kg (89lbs)         41kg (89lbs)           Weight (unit with 100AH battery)         10kg (22lbs)         42lbs         42lbs         54kg (119lbs) </td <td>Surge power</td> <td>2,000 watts</td> <td></td>	Surge power	2,000 watts	
Low battery shutdown  10.0 +/- 0.5 volts DC  Charger section  Input voltage  230 volts AC (180-265 VAC) 45-65 Hz  Output current  10 amps (@12V)  Battery type  Lead-acid  Charging type  3-stage  Maximum battery capacity  100 amp hours  Environmental/mechanical  Portability features  Equipped with telescopic handle and wheels  For use on smooth surfaces only  0ver-temperature shutdown  +55°C +/-5°C  Fuses  32V, 40A blade fuses Body style ATU or ATO/ATC  EMI P/N EEE00250-0001  Certification  CE marked  Dimensions (power source unit) (h x   x w)  18" x 16.5" x 14"  Dimensions (case) (h x   x w)  Veight (unit without battery)  Weight (unit without battery)  Weight (unit with 100AH battery)  Weight (unit with 100AH battery)  Battery recommendations  Battery type  12 volt sealed deep cycle lead-acid (AGM or SLA or VRLA or gel cell)  Battery capacity  Terminal plus case height 265mm (10.5") maximum	No load power dissipation	7.2 watts	
Charger section       230 volts AC (180-265 VAC)         Input voltage       230 volts AC (180-265 VAC)         45-65 Hz       45-65 Hz         Output current       10 amps (@12V)         Battery type       Lead-acid         Charging type       3-stage         Maximum battery capacity       100 amp hours         Environmental/mechanical       ***         Portability features       Equipped with telescopic handle and wheels       For use on smooth surfaces only         Over-temperature shutdown       +55°C +/-5°C       ***         Fuses       32V, 40A blade fuses Body style ATU or ATO/ATC       EMI P/N EEE00250-0001         Certification       CE marked       ***         Dimensions (power source unit) (h x l x w)       458mm x 419mm x 356mm       ***         18" x 16.5" x 14"       ***         Dimensions (case) (h x l x w)       580mm x 432mm x 470mm       ***         22.75" x 17" x 18.5"       ***         Weight (unit without battery)       10kg (22lbs)       ***         Weight (unit with 100AH battery)       41kg (89lbs)       ***         Weight (unit in case with battery)       54kg (119lbs)       ***         Battery recommendations       12 volt sealed deep cycle lead-acid (AGM or SLA or VRLA or gel cell)       *** <t< td=""><td>Low battery alarm</td><td>10.5 +/-0.5 volts DC</td><td></td></t<>	Low battery alarm	10.5 +/-0.5 volts DC	
Input voltage 230 volts AC (180-265 VAC) 45-65 Hz  Output current 10 amps (@12V)  Battery type Lead-acid Charging type 3-stage  Maximum battery capacity 100 amp hours  Environmental/mechanical Portability features Equipped with telescopic handle and wheels For use on smooth surfaces only  Over-temperature shutdown +55°C +/-5°C  Fuses 32V, 40A blade fuses Body style ATU or ATO/ATC EMI P/N EEE00250-0001  Certification CE marked 588mm x 419mm x 356mm 18" x 16.5" x 14"  Dimensions (power source unit) (h x   x w) 22.75" x 17" x 18.5"  Weight (unit without battery) 10kg (22lbs) 41kg (89lbs) 54kg (119lbs)  Battery recommendations  Battery type 12 volt sealed deep cycle lead-acid (AGM or SLA or VRLA or gel cell) Eatlery capacity limited by maximum dimensions  Battery dimensions (2000 Terminals sized for M8 bolt/nut  Battery connections Terminals sized for M8 bolt/nut	Low battery shutdown	10.0 +/- 0.5 volts DC	
A5-65 Hz   Output current   10 amps (@12V)	Charger section		
Dutput current  Battery type  Lead-acid  Charging type  3-stage  Maximum battery capacity  100 amp hours  Environmental/mechanical  Portability features  Equipped with telescopic handle and wheels  Over-temperature shutdown  +55°C +/-5°C  Fuses  32V, 40A blade fuses Body style ATU or ATO/ATC  EMI P/N EEE00250-0001  Certification  CE marked  Dimensions (power source unit) (h x   x w)  Dimensions (case) (h x   x w)  Weight (unit without battery)  Weight (unit without battery)  Weight (unit in case with battery)  Battery recommendations  Battery type  12 volt sealed deep cycle lead-acid (AGM or SLA or VRLA or gel cell)  Battery capacity  Battery dimensions (h x   x w)  Battery dimensions (h x   x w)  Battery dimensions (h x   x w)  Battery connections  Terminals sized for M8 bolt/nut	Input voltage	230 volts AC (180-265 VAC)	
Battery type   Lead-acid   Charging type   3-stage   Maximum battery capacity   100 amp hours   Environmental/mechanical   Portability features   Equipped with telescopic handle and wheels   For use on smooth surfaces only   Over-temperature shutdown   +55°C +/-5°C   Fuses   32V, 40A blade fuses   Body style ATU or ATO/ATC   EMI P/N EEE00250-0001   Certification   CE marked   Dimensions (power source unit)   458mm x 419mm x 356mm   (ln x   x w)   18" x 16.5" x 14"   Dimensions (case)   580mm x 432mm x 470mm   (2.775" x 17" x 18.5"   Weight (unit without battery)   10kg (22lbs)   Weight (unit with 100AH battery)   41kg (89lbs)   Weight (unit in case with battery)   54kg (119lbs)   Battery recommendations   Battery type   12 volt sealed deep cycle lead-acid (AGM or SLA or VRLA or gel cell)   Battery capacity   100 AH maximum   Maximum battery capacity limited by maximum dimensions   Battery dimensions (h x   x w)   8.75" x 13.24" x 6.75"   Battery connections   Terminals sized for M8 bolt/nut		45-65 Hz	
Charging type  Asstage  Maximum battery capacity  Environmental/mechanical  Portability features  Equipped with telescopic handle and wheels  Over-temperature shutdown  For use on smooth surfaces only  EMI P/N EEE00250-0001  Certification  CE marked  Dimensions (power source unit)  (h x   x w)  Dimensions (case)  (h x   x w)  Weight (unit without battery)  Weight (unit in case with battery)  Weight (unit in case with battery)  Battery type  12 volt sealed deep cycle lead-acid (AGM or SLA or VRLA or gel cell)  Battery dimensions  Battery dimensions  Battery dimensions  (h x   x w)  Battery dimensions  CE marked  Dimensions (power source unit)  10kg (22lbs)  41kg (89lbs)  54kg (119lbs)  Battery type  12 volt sealed deep cycle lead-acid (AGM or SLA or VRLA or gel cell)  Maximum battery capacity limited by maximum dimensions  Battery dimensions  (h x   x w)  Battery dimensions  (h x   x w)  Terminal plus case height 265mm (10.5") maximum  Battery connections  Terminals sized for M8 bolt/nut	Output current	10 amps (@12V)	
Maximum battery capacity  Environmental/mechanical  Portability features  Equipped with telescopic handle and wheels  For use on smooth surfaces only  Over-temperature shutdown  +55°C +/-5°C  Fuses  32V, 40A blade fuses Body style ATU or ATO/ATC  EMI P/N EEE00250-0001  Certification  CE marked  Dimensions (power source unit) (h x   x w)  18" x 16.5" x 14"  Dimensions (case) (h x   x w)  Weight (unit without battery)  Weight (unit with 100AH battery)  Weight (unit in case with battery)  41kg (89lbs)  Weight (unit in case with battery)  Battery recommendations  Battery type  12 volt sealed deep cycle lead-acid (AGM or SLA or VRLA or gel cell)  Battery capacity  Terminals sized for M8 bolt/nut  Battery connections  Terminals plus case height 265mm (10.5") maximum  Battery connections  Terminals sized for M8 bolt/nut	Battery type	Lead-acid	
Environmental/mechanical       Equipped with telescopic handle and wheels       For use on smooth surfaces only         Over-temperature shutdown       +55°C +/-5°C         Fuses       32V, 40A blade fuses Body style ATU or ATO/ATC       EMI P/N EEE00250-0001         Certification       CE marked         Dimensions (power source unit) (h x l x w)       458mm x 419mm x 356mm 18" x 16.5" x 14"         Dimensions (case) (h x l x w)       580mm x 432mm x 470mm 22.75" x 17" x 18.5"         Weight (unit without battery)       10kg (22lbs)         Weight (unit with 100AH battery)       41kg (89lbs)         Weight (unit in case with battery)       54kg (119lbs)         Battery recommendations       Eatlery type       12 volt sealed deep cycle lead-acid (AGM or SLA or VRLA or gel cell)       Sealed battery recommended to reduce likelihood of acid spills         Battery capacity       100 AH maximum       Maximum battery capacity limited by maximum dimensions         Battery dimensions (h x l x w)       220mm x 335mm x 170mm 8.75" x 13.24" x 6.75"       Terminal plus case height 265mm (10.5") maximum         Battery connections       Terminals sized for M8 bolt/nut	Charging type	3-stage	
Portability features  Equipped with telescopic handle and wheels  Over-temperature shutdown  +55°C +/-5°C  Fuses  32V, 40A blade fuses Body style ATU or ATO/ATC  EMI P/N EEE00250-0001  Certification  CE marked  Dimensions (power source unit) (h x l x w)  Dimensions (case) (h x l x w)  10kg (22lbs)  41kg (89lbs)  Weight (unit with 100AH battery)  Weight (unit in case with battery)  Battery recommendations  Battery type  12 volt sealed deep cycle lead-acid (AGM or SLA or VRLA or gel cell)  Battery capacity  10v AH maximum  Maximum battery capacity limited by maximum dimensions  Battery dimensions (h x l x w)  220mm x 335mm x 170mm (h x l x w)  8.75" x 13.24" x 6.75"  Terminal plus case height 265mm (10.5") maximum  Terminal plus case height 265mm (10.5") maximum	Maximum battery capacity	100 amp hours	
Over-temperature shutdown       +55°C +/-5°C         Fuses       32V, 40A blade fuses Body style ATU or ATO/ATC       EMI P/N EEE00250-0001         Certification       CE marked         Dimensions (power source unit) (h x I x w)       458mm x 419mm x 356mm (h x I x w)         Dimensions (case) (h x I x w)       580mm x 432mm x 470mm (h x I x w)         Weight (unit without battery)       10kg (22lbs)         Weight (unit with 100AH battery)       41kg (89lbs)         Weight (unit in case with battery)       54kg (119lbs)         Battery recommendations       52 volt sealed deep cycle lead-acid (AGM or SLA or VRLA or gel cell)       Sealed battery recommended to reduce likelihood of acid spills         Battery capacity       100 AH maximum       Maximum battery capacity limited by maximum dimensions         Battery dimensions (h x I x w)       220mm x 335mm x 170mm (10.5") maximum       Terminal plus case height 265mm (10.5") maximum         Battery connections       Terminals sized for M8 bolt/nut	Environmental/mechanical		
Fuses  32V, 40A blade fuses Body style ATU or ATO/ATC  EMI P/N EEE00250-0001  Certification  CE marked  Jimensions (power source unit) (h × I × w)  Dimensions (case) (h × I × w)  22.75" × 17" × 18.5"  Weight (unit without battery)  Weight (unit with 100AH battery)  Weight (unit in case with battery)  Battery recommendations  Battery type  12 volt sealed deep cycle lead-acid (AGM or SLA or VRLA or gel cell)  Battery capacity  100 AH maximum  Maximum battery capacity limited by maximum dimensions  Battery dimensions  Battery dimensions (h × I × w)  Battery connections  Terminals sized for M8 bolt/nut	Portability features	Equipped with telescopic handle and wheels	For use on smooth surfaces only
Body style ATU or ATO/ATC  Certification  CE marked  Dimensions (power source unit) (h x l x w) 458mm x 419mm x 356mm 18" x 16.5" x 14"  Dimensions (case) 580mm x 432mm x 470mm 22.75" x 17" x 18.5"  Weight (unit without battery) 10kg (22lbs) 41kg (89lbs)  Weight (unit in case with battery) 54kg (119lbs)  Battery recommendations  Battery type 12 volt sealed deep cycle lead-acid (AGM or SLA or VRLA or gel cell) Sealed battery capacity Invited by maximum battery capacity limited by maximum dimensions  Battery dimensions 220mm x 335mm x 170mm Terminal plus case height 265mm (h x l x w) 8.75" x 13.24" x 6.75"  Battery connections Terminals sized for M8 bolt/nut	Over-temperature shutdown	+55°C +/-5°C	
Dimensions (power source unit) (h x l x w)  Dimensions (case) (h x l x w)  S80mm x 432mm x 470mm 22.75" x 17" x 18.5"  Weight (unit without battery) Weight (unit with 100AH battery) Weight (unit in case with battery)  Battery recommendations  Battery type  12 volt sealed deep cycle lead-acid (AGM or SLA or VRLA or gel cell)  Battery capacity  100 AH maximum  Maximum battery capacity limited by maximum dimensions  Battery dimensions  220mm x 335mm x 170mm (h x l x w)  Battery connections  Terminal plus case height 265mm (10.5") maximum	Fuses		EMI P/N EEE00250-0001
Terminals sized for M8 bolt/nut   Terminal sized	Certification	CE marked	
(h x   x w)       22.75" x 17" x 18.5"         Weight (unit without battery)       10kg (22lbs)         Weight (unit with 100AH battery)       41kg (89lbs)         Weight (unit in case with battery)       54kg (119lbs)         Battery recommendations			
Weight (unit with 100AH battery)  Weight (unit in case with battery)  Battery recommendations  Battery type  12 volt sealed deep cycle lead-acid (AGM or SLA or VRLA or gel cell)  Battery capacity  100 AH maximum  Maximum battery capacity limited by maximum dimensions  Battery dimensions (h x   x w)  Battery connections  Terminals sized for M8 bolt/nut	, ,		
Weight (unit in case with battery)  Battery recommendations  Battery type  12 volt sealed deep cycle lead-acid (AGM or SLA or VRLA or gel cell)  Battery capacity  100 AH maximum  Maximum battery capacity limited by maximum dimensions  Battery dimensions  (h x   x w)  Battery connections  Terminals sized for M8 bolt/nut	Weight (unit without battery)	10kg (22lbs)	
Battery type  12 volt sealed deep cycle lead-acid (AGM or SLA or VRLA or gel cell)  Battery capacity  100 AH maximum  Maximum battery capacity limited by maximum dimensions  Battery dimensions (h x   x w)  Battery connections  Terminals sized for M8 bolt/nut	Weight (unit with 100AH battery)	41kg (89lbs)	
Battery type  12 volt sealed deep cycle lead-acid (AGM or SLA or VRLA or gel cell)  Battery capacity  100 AH maximum  Maximum battery capacity limited by maximum dimensions  Battery dimensions  (h x   x w)  220mm x 335mm x 170mm  8.75" x 13.24" x 6.75"  Terminal plus case height 265mm (10.5") maximum  Terminals sized for M8 bolt/nut	Weight (unit in case with battery)	54kg (119lbs)	
(AGM or SLA or VRLA or gel cell)  Battery capacity  100 AH maximum  Maximum battery capacity limited by maximum dimensions  Battery dimensions  (h x   x w)  220mm x 335mm x 170mm  (h x   x w)  8.75" x 13.24" x 6.75"  Terminals sized for M8 bolt/nut	Battery recommendations		
by maximum dimensions  Battery dimensions  220mm x 335mm x 170mm (h x I x w)  8.75" x 13.24" x 6.75"  Terminal plus case height 265mm (10.5") maximum  Terminals sized for M8 bolt/nut	Battery type		
(h x l x w) 8.75" x 13.24" x 6.75" (10.5") maximum  Battery connections Terminals sized for M8 bolt/nut	Battery capacity	100 AH maximum	
·	_		
Recommended batteries Powersonic PS121000U (or equivalent)	Battery connections	Terminals sized for M8 bolt/nut	
	Recommended batteries	Powersonic PS121000U (or equivalent)	

© Expro International Group LTD PortableACpowerstation 100816 Rev 01