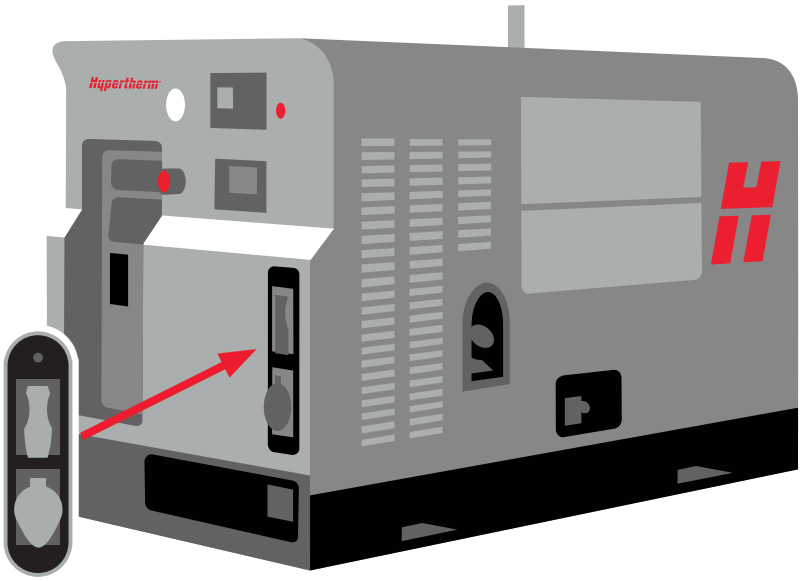
Hypertherm®

OFF THE GRID AND **ON THE JOB**

Any job. Any place. **Freedom 38 PPA**

The Freedom 38 PPA™ is an engine-driven, fully self-contained 125 amp plasma system designed for cutting and gouging in remote locations. The auxiliary power and air give you the freedom to run welders or other tools as well. Four of the many proven work options available to you with the Freedom 38 PPA are illustrated on the back of this sheet..



Run lights, a welder or other equipment with auxiliary 120 V, 1-PH and 480 V, 3-PH outlets.

◀ **Grinders, lights and motorized pipe cutters are among the many tool options you can run with the Freedom 38 PPA.**

How to calculate **all your possibilities**

Estimating power draw

45 A at 25% duty cycle – 38 kW x 1000 /480/1.73 = 45/.8 pf = 56 A
42 A continuous (100%) – 35 kW x 1000/480/1.73 = 42/.8 pf = 52.5 A

	Powermax125	@ 105 Amps	@ 85 Amps	@ 65 Amps
Power draw	31 A	25 A	18 A	13 A
Remaining power available to run other equipment				
25% Duty	25 A	31 A	38 A	43 A
100% Duty	21.5 A	38 A	34.5 A	39.5 A

Note: Arc stretch and piloting will affect the amperage draw during operation and should be taken into consideration by allowing a margin for brief increases.

Air flow capacity

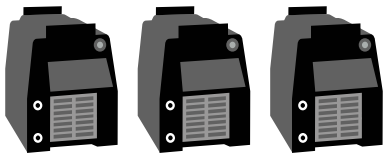
A built-in air compressor can produce 470 slpm at 10 bar (19 liter/5 gallon holding tank). In addition, the auxiliary air line can be used in conjunction with the on-board Powermax125, as long as the combined flow rate doesn't exceed the capacity of the air compressor.

	Powermax125	Powermax105	Powermax85	Powermax65
Cutting	260 slpm @ 5.9 bar	220 slpm @ 5.9 bar	190 slpm @ 5.9 bar	190 slpm @ 5.9 bar
Gouging	212 slpm @ 4.1 bar	230 slpm @ 4.8 bar	210 slpm @ 4.8 bar	210 slpm @ 4.8 bar

Note: Arc stretch and piloting will affect the amperage draw during operation and should be taken into consideration by allowing a margin for brief increases.

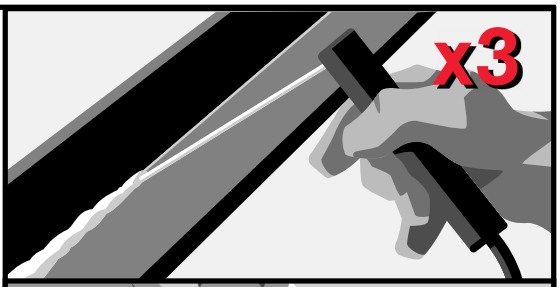
To learn more, visit
www.hypertherm.com/Freedom38PPA

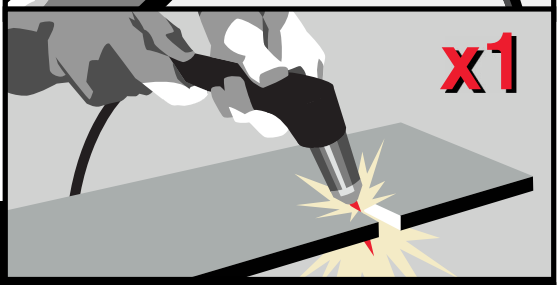
1



Run three welders, each set at 175 A

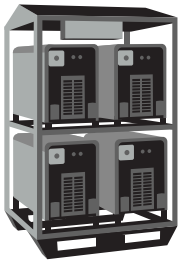
Run the integrated Powermax125, set at 65 A





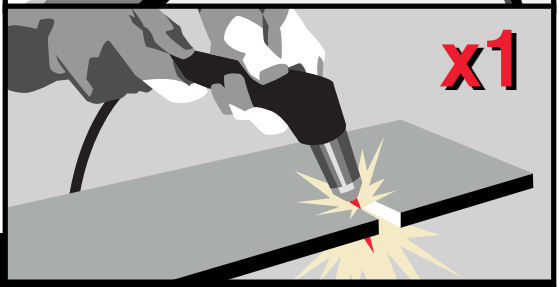
Operators welding with a ⅛" 7018 stick rod and cutting ½" mild steel.

2



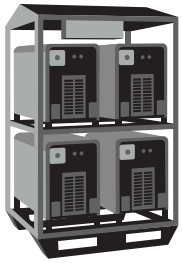
Run a four-pack of welders each set at 125 A

Run the integrated Powermax125, set at 65 A



Cut ½" at 65 A.

3



Run a four-pack of welders each set at 240 A

About right for ¼" welding rod. No cutting.

4

Run Powermax125 at 65 A

Run Powermax65

Run a second Powermax system within the power and airflow ranges.

860750 Rev. 0

Hypertherm®
SHAPING POSSIBILITY™