



Viability in Film Case Study Valid's Power System (VPS)

Over 5 years of Valid's Studio Generator Evolution

Valid's commitment to provide the film industry with top-of-the-line products is shown through their ability to adapt to changing demands. Starting their journey with Tier 3 generators, Valid now manufactures highly-efficient Tier 4 studio generators for the top film rental companies in Canada.



**VPS 800A - T4
Studio Generator**

The Rise of Clean Power

With sustainable power top of mind, Valid began the development of their VPS Battery Pack Program to provide clean, portable power with units ranging from 10kWh to 100kWh.



**VPS 100kWh
Battery Pack**

“ *What we are striving for is maximum efficiency. Could a battery / generator system supply power for lesser loads, and both supply power and charge the battery for greater loads?* ”

~Nick de St. Croix, Alternative Energy Engineer

A Step Further

Having achieved success with their Studio Generator and Battery Pack Programs, Valid seized the opportunity to take efficiency to the next level. Combining the technology of both units, Valid created the efficient VPS Hybrid Power System.



VPS Hybrid Combo



Solving Range Anxiety in Film

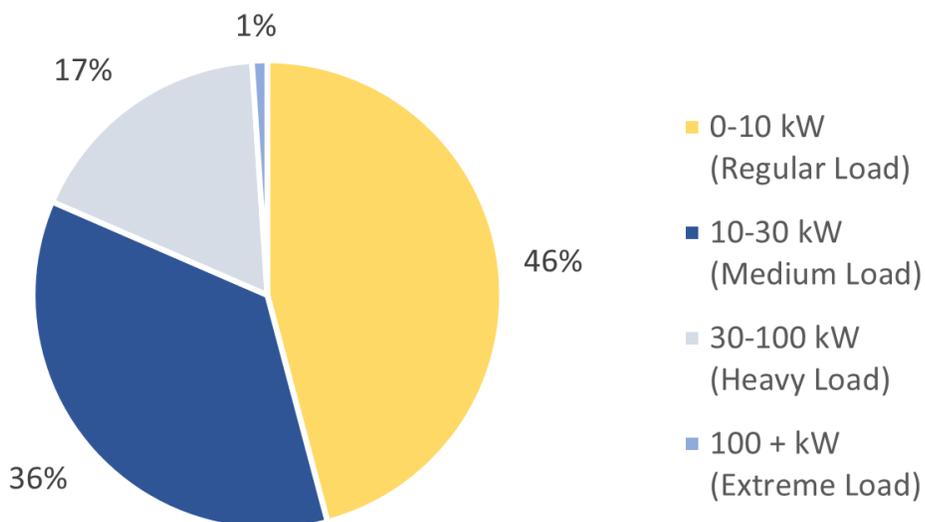
How do you confidently supply enough power for a production without fear of running low?

Valid's VPS Remote Monitoring System helps combat the range anxiety challenge that new sustainable power generation technology presents. Remote monitoring capabilities provide the ability to monitor and log operational parameters, allowing generator operators to see how much power they use on a given production. This adds extra security to a film set and provides better prediction for future power usage.

“ *Data from our Remote Monitoring System suggested that our 1400A - T3 (175kW) Generators were being under-utilized on set. They were typically being ran under a 30kW load, and rarely exceeded a 100kW load.* ”

~Bruce Halverson, Sales and Business Development

1400Amp T3 Generator Load Categories





A Versatile Power System

The Valid Power System provides the film industry with cleaner, more reliable, and sustainable alternatives compared to the current generator systems.

How it Works



VPS 100kWh Battery Pack provides power up to 30kW



VPS 800A - T4 Studio Generator seamlessly transitions to Hybrid Mode for loads over 30kW while simultaneously re-charging the VPS Battery Pack



Hybrid Mode will seamlessly couple the VPS 800A - T4 Studio Generator with the VPS 100kWh Battery Pack to provide power up to 130kW



Combine up to four 100kW Battery Packs for a total output of 120kWh coupled with a VPS 800A - T4 Studio Generator to charge all batteries





Valid Reduces Emissions and Waste in the Film Industry

Quiet

Reliable

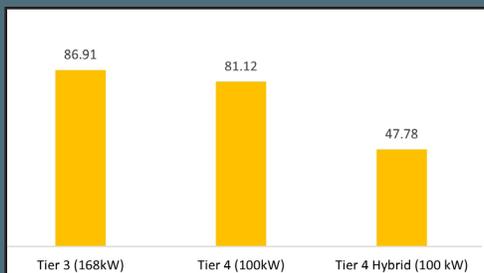
Portable

Valid is confident that range anxiety from adopting the technology will disappear and sustainable products like ours will soon become the industry standard.

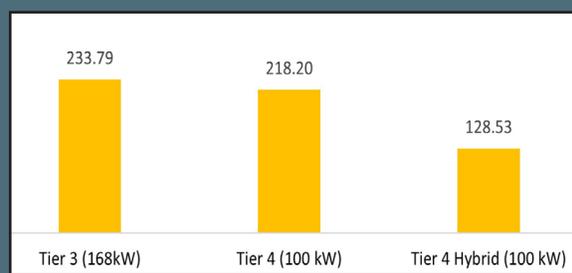
Valid's Tier 3 VPS Studio Generator and 100kWh Battery Pack has been successfully used as a Hybrid System.

Savings Comparisons

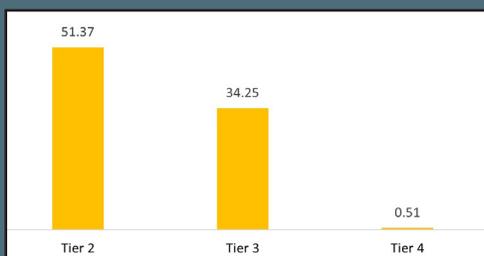
Fuel Consumption (Liters)



Carbon Dioxide (Co2) (Kilograms)



Particulate Matter (PM) (Grams)



Nitrogen Oxides (NOx) (Percentage of Output)

