

## N DIGITAL PUWER



PSH150 is an advanced DIN rail 1-phase input, 150W SMPS (Switched Mode Power Supply) with a distinctive feature: 10 kV isolation between primary and secondary.
This allows it to be used in energy management, telecom, renewable energy and other demanding applications.

## - Main Features

- Class II wiring (PE connection not required)
- 10kVac primary to secondary isolation (suitable for energy management applications)
- Wide output voltage range $5 . . .55 \mathrm{Vdc}$, user settable
- Auxiliary $12 \mathrm{~V} / 100 \mathrm{~mA}$ power supply
- High efficiency and compact size
- Digital Power regulation
- User settable current limitation threshold
- Remote ON/OFF or other remote control functions possible through INHIBIT input
- Modbus over USB and RS-485 interfaces for control and monitoring
- Multiple protections
- Can be paralleled for power or redundancy (integrated ORing circuitry)
- Up to $50^{\circ} \mathrm{C}$ operating temperature with no derating
- Wall mount fixing possible
- Suitable for POWERMASTER software (available for Windows and Android OS)


## TECHNICAL DATA

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| Rated voltage | 5...55Vdc |
| Adj. output voltage range | 5 ... 55 Vdc (1V resolution programmable) |
| Continuous current | $12.0 \mathrm{~A} @ 5 . . .12 \mathrm{Vdc}$, 6.0A @ 24Vdc, 3.0A @ 48Vdc or Vout x lout $=150 \mathrm{~W}$ Max. for Vout > 48Vdc |
| Overload limit | 12.5 A to 3.0A (depending on Vout) |
| Short circuit peak current | 12.5 A to 3.1 A (depending on Vout) |
| Load regulation | $\leq 2 \%$ @ 5Vdc,$\leq 1 \%$ @ 12Vdc, $\leq 0.5 \%$ @ $\geq 24 \mathrm{Vdc}$ |
| Ripple \& Noise ${ }^{1}$ | $\leq 120 \mathrm{mVpp}$ |
| Hold up time | $\geq 30 \mathrm{~ms}$ |
| Battery charger function | C.C. / C.V. (setup via front panel or POWERMASTER application) |
| Battery chemistries | - Lead Acid <br> - Lithium |
| Protections | - Overload and short circuit protection <br> - Thermal protection <br> - Input undervoltage lockout (UVLO) <br> - Input overvoltage protection (VDR) |
| Output overvoltage protection | $\geq 62 \mathrm{Vdc}$ |
| Status Signals User Interface | - 7 segment, 3 digits display <br> - 3 Status LEDs <br> - 3 programming keys <br> - INHIBIT - Isolated remote ON/OFF input, active for $5 . . .30 \mathrm{Vdc}$ <br> - 12 V AUX - Auxiliary $12 \mathrm{Vdc} / 100 \mathrm{~mA}$ <br> - DC OK - dry contact (SPDT, 24Vdc / 1A) <br> - Modbus over USB and RS-485 interfaces |

## Parallel connec

Possible for power and redundancy (integrated ORing circuitry)






CONNECTION


