All test conditions are at 25°C. The figures are identical for PMM15-12S05





Efficiency Versus Input Voltage.



Derating Output Load Versus Ambient Temperature and Airflow Vin(nom)

All test conditions are at $25^\circ\!\mathrm{C}.$ The figures are identical for PMM15-12S05









Transient Response to Dynamic Load Change from 100% to 75% to 100% of Full Load ; Vin(nom)



Using ON/OFF Voltage Start-Up and Vo Rise Characteristic Vin(nom), Full Load

All test conditions are at $25^\circ\!\mathrm{C}.The$ figures are identical for PMM15-12S12



Efficiency Versus Output Load



Power Dissipation Versus Output Load



Efficiency Versus Input Voltage.



Derating Output Load Versus Ambient Temperature and Airflow Vin(nom)

POWERBOX Medline

PMM15 Series 15W 2:1 & 4:1 Single and Dual Output Medical DC/DC Converter Characteristic Curves

All test conditions are at 25° C. The figures are identical for PMM15-12S12









Transient Response to Dynamic Load Change from 100% to 75% to 100% of Full Load ; Vin(nom)



Using ON/OFF Voltage Start-Up and Vo Rise Characteristic Vin(nom), Full Load

All test conditions are at $25^\circ\!\mathrm{C}.The$ figures are identical for PMM15-12S15



Efficiency Versus Output Load



Power Dissipation Versus Output Load



Efficiency Versus Input Voltage.



Derating Output Load Versus Ambient Temperature and Airflow Vin(nom)

POWERBOX Medline

PMM15 Series 15W 2:1 & 4:1 Single and Dual Output Medical DC/DC Converter Characteristic Curves

All test conditions are at $25^\circ\!\mathrm{C}$.The figures are identical for PMM15-12S15









Transient Response to Dynamic Load Change from 100% to 75% to 100% of Full Load ; Vin(nom)



Using ON/OFF Voltage Start-Up and Vo Rise Characteristic Vin(nom), Full Load

All test conditions are at $25^\circ\!\mathrm{C}.The$ figures are identical for PMM15-12S24



Efficiency Versus Output Load



Power Dissipation Versus Output Load



Efficiency Versus Input Voltage.



Derating Output Load Versus Ambient Temperature and Airflow Vin(nom)

POWERBOX Medline

PMM15 Series 15W 2:1 & 4:1 Single and Dual Output Medical DC/DC Converter Characteristic Curves

All test conditions are at 25° C. The figures are identical for PMM15-12S24









Transient Response to Dynamic Load Change from 100% to 75% to 100% of Full Load ; Vin(nom)



Using ON/OFF Voltage Start-Up and Vo Rise Characteristic Vin(nom), Full Load

All test conditions are at $25^\circ\!\mathrm{C}.$ The figures are identical for PMM15-24S05



Efficiency Versus Output Load



Power Dissipation Versus Output Load



Efficiency Versus Input Voltage.



Derating Output Load Versus Ambient Temperature and Airflow Vin(nom)

POWERBOX Medline

PMM15 Series 15W 2:1 & 4:1 Single and Dual Output Medical DC/DC Converter Characteristic Curves

All test conditions are at $25^\circ\!\mathrm{C}$.The figures are identical for PMM15-24S05









Transient Response to Dynamic Load Change from 100% to 75% to 100% of Full Load ; Vin(nom)



Using ON/OFF Voltage Start-Up and Vo Rise Characteristic Vin(nom), Full Load

All test conditions are at $25^\circ\!\mathrm{C}.The$ figures are identical for PMM15-24S12



Efficiency Versus Output Load



Power Dissipation Versus Output Load



Efficiency Versus Input Voltage.



Derating Output Load Versus Ambient Temperature and Airflow Vin(nom)

POWERBOX Medline

PMM15 Series 15W 2:1 & 4:1 Single and Dual Output Medical DC/DC Converter Characteristic Curves

All test conditions are at 25° C. The figures are identical for PMM15-24S12









Transient Response to Dynamic Load Change from 100% to 75% to 100% of Full Load ; Vin(nom)



Using ON/OFF Voltage Start-Up and Vo Rise Characteristic Vin(nom), Full Load

All test conditions are at $25^\circ\!\mathrm{C}.The$ figures are identical for PMM15-24S15



Efficiency Versus Output Load



Power Dissipation Versus Output Load



Efficiency Versus Input Voltage.



Derating Output Load Versus Ambient Temperature and Airflow Vin(nom)

POWERBOX Medline PMM15 Series 15W 2:1 & 4:1 Single and Dual Output

Medical DC/DC Converter

Characteristic Curves

All test conditions are at $25^\circ\!\mathrm{C}$.The figures are identical for PMM15-24S15









Transient Response to Dynamic Load Change from 100% to 75% to 100% of Full Load ; Vin(nom)



Using ON/OFF Voltage Start-Up and Vo Rise Characteristic Vin(nom), Full Load

All test conditions are at 25 $^\circ\!{\rm C}.$ The figures are identical for PMM15-24S24



Efficiency Versus Output Load



Power Dissipation Versus Output Load



Efficiency Versus Input Voltage.



Derating Output Load Versus Ambient Temperature and Airflow Vin(nom)

All test conditions are at $25^\circ\!\mathrm{C}$.The figures are identical for PMM15-24S24



Typical Output Ripple and Noise. Vin(nom), Full Load



Typical Input Start-Up and Output Rise Characteristic Vin(nom), Full Load



Transient Response to Dynamic Load Change from 100% to 75% to 100% of Full Load ; Vin(nom)



Using ON/OFF Voltage Start-Up and Vo Rise Characteristic Vin(nom), Full Load

All test conditions are at $25^\circ\!\mathrm{C}.The$ figures are identical for PMM15-48S05



Efficiency Versus Output Load



Power Dissipation Versus Output Load



Efficiency Versus Input Voltage.



Derating Output Load Versus Ambient Temperature and Airflow Vin(nom)

POWERBOX Medline

PMM15 Series 15W 2:1 & 4:1 Single and Dual Output Medical DC/DC Converter Characteristic Curves

All test conditions are at $25^\circ\!\mathrm{C}.The$ figures are identical for PMM15-48S05









Transient Response to Dynamic Load Change from 100% to 75% to 100% of Full Load ; Vin(nom)



Using ON/OFF Voltage Start-Up and Vo Rise Characteristic Vin(nom), Full Load

All test conditions are at $25^\circ\!\mathrm{C}.The$ figures are identical for PMM15-48S12



Efficiency Versus Output Load



Power Dissipation Versus Output Load







Derating Output Load Versus Ambient Temperature and Airflow Vin(nom)

POWERBOX Medline

PMM15 Series 15W 2:1 & 4:1 Single and Dual Output Medical DC/DC Converter Characteristic Curves

All test conditions are at 25° C. The figures are identical for PMM15-48S12









Transient Response to Dynamic Load Change from 100% to 75% to 100% of Full Load ; Vin(nom)



Using ON/OFF Voltage Start-Up and Vo Rise Characteristic Vin(nom), Full Load

All test conditions are at $25^\circ\!\mathrm{C}.The$ figures are identical for PMM15-48S15



Efficiency Versus Output Load



Power Dissipation Versus Output Load







Derating Output Load Versus Ambient Temperature and Airflow Vin(nom)

All test conditions are at $25^\circ\!\mathrm{C}$.The figures are identical for PMM15-48S15



Typical Output Ripple and Noise. Vin(nom), Full Load



Typical Input Start-Up and Output Rise Characteristic Vin(nom), Full Load



Transient Response to Dynamic Load Change from 100% to 75% to 100% of Full Load ; Vin(nom)



Using ON/OFF Voltage Start-Up and Vo Rise Characteristic Vin(nom), Full Load

All test conditions are at $25^\circ\!\mathrm{C}.The$ figures are identical for PMM15-48S24



Efficiency Versus Output Load



Power Dissipation Versus Output Load







Derating Output Load Versus Ambient Temperature and Airflow Vin(nom)

All test conditions are at $25^\circ\!\mathrm{C}$.The figures are identical for PMM15-48S24



Typical Output Ripple and Noise. Vin(nom), Full Load



Typical Input Start-Up and Output Rise Characteristic Vin(nom), Full Load



Transient Response to Dynamic Load Change from 100% to 75% to 100% of Full Load ; Vin(nom)



Using ON/OFF Voltage Start-Up and Vo Rise Characteristic Vin(nom), Full Load

All test conditions are at $25^\circ\!\mathrm{C}$.The figures are identical for PMM15-24S05W



Efficiency Versus Output Load



Power Dissipation Versus Output Load



Efficiency Versus Input Voltage.



Derating Output Load Versus Ambient Temperature and Airflow Vin(nom)

POWERBOX Medline

PMM15 Series 15W 2:1 & 4:1 Single and Dual Output Medical DC/DC Converter Characteristic Curves

All test conditions are at $25^\circ\!\mathrm{C}$.The figures are identical for PMM15-24S05W









Transient Response to Dynamic Load Change from 100% to 75% to 100% of Full Load ; Vin(nom)



Using ON/OFF Voltage Start-Up and Vo Rise Characteristic Vin(nom), Full Load

All test conditions are at $25^\circ\!\mathrm{C}$.The figures are identical for PMM15-24S12W



Efficiency Versus Output Load



Power Dissipation Versus Output Load







Derating Output Load Versus Ambient Temperature and Airflow Vin(nom)

POWERBOX Medline

PMM15 Series 15W 2:1 & 4:1 Single and Dual Output Medical DC/DC Converter Characteristic Curves

All test conditions are at $25^\circ\!\mathrm{C}$.The figures are identical for PMM15-24S12W









Transient Response to Dynamic Load Change from 100% to 75% to 100% of Full Load ; Vin(nom)



Using ON/OFF Voltage Start-Up and Vo Rise Characteristic Vin(nom), Full Load

All test conditions are at $25^\circ\!\mathrm{C}$.The figures are identical for PMM15-24S15W



Efficiency Versus Output Load



Power Dissipation Versus Output Load







Derating Output Load Versus Ambient Temperature and Airflow Vin(nom)

POWERBOX Medline

PMM15 Series 15W 2:1 & 4:1 Single and Dual Output Medical DC/DC Converter Characteristic Curves

All test conditions are at $25^\circ\!\mathrm{C}$.The figures are identical for PMM15-24S15W









Transient Response to Dynamic Load Change from 100% to 75% to 100% of Full Load ; Vin(nom)



Using ON/OFF Voltage Start-Up and Vo Rise Characteristic Vin(nom), Full Load

All test conditions are at $25^\circ\!\mathrm{C}$.The figures are identical for PMM15-24S24W



Efficiency Versus Output Load



Power Dissipation Versus Output Load



Efficiency Versus Input Voltage.



Derating Output Load Versus Ambient Temperature and Airflow Vin(nom)

POWERBOX Medline

PMM15 Series 15W 2:1 & 4:1 Single and Dual Output Medical DC/DC Converter Characteristic Curves

All test conditions are at $25^\circ\!\mathrm{C}$.The figures are identical for PMM15-24S24W









Transient Response to Dynamic Load Change from 100% to 75% to 100% of Full Load ; Vin(nom)



Using ON/OFF Voltage Start-Up and Vo Rise Characteristic Vin(nom), Full Load

All test conditions are at $25^\circ\!\mathrm{C}$.The figures are identical for PMM15-48S05W



Efficiency Versus Output Load



Power Dissipation Versus Output Load







Derating Output Load Versus Ambient Temperature and Airflow Vin(nom)

POWERBOX Medline

PMM15 Series 15W 2:1 & 4:1 Single and Dual Output Medical DC/DC Converter Characteristic Curves

All test conditions are at $25^\circ\!\mathrm{C}$.The figures are identical for PMM15-48S05W









Transient Response to Dynamic Load Change from 100% to 75% to 100% of Full Load ; Vin(nom)



Using ON/OFF Voltage Start-Up and Vo Rise Characteristic Vin(nom), Full Load

All test conditions are at $25^\circ\!\mathrm{C}$.The figures are identical for PMM15-48S12W



Efficiency Versus Output Load



Power Dissipation Versus Output Load



Efficiency Versus Input Voltage.



Derating Output Load Versus Ambient Temperature and Airflow Vin(nom)

POWERBOX Medline

PMM15 Series 15W 2:1 & 4:1 Single and Dual Output Medical DC/DC Converter

Characteristic Curves

All test conditions are at $25^\circ\!\mathbb{C}$.The figures are identical for PMM15-48S12W









Transient Response to Dynamic Load Change from 100% to 75% to 100% of Full Load ; Vin(nom)



Using ON/OFF Voltage Start-Up and Vo Rise Characteristic Vin(nom), Full Load

All test conditions are at $25^\circ\!\mathrm{C}$.The figures are identical for PMM15-48S15W



Efficiency Versus Output Load



Power Dissipation Versus Output Load



Efficiency Versus Input Voltage.



Derating Output Load Versus Ambient Temperature and Airflow Vin(nom)

All test conditions are at $25^\circ\!\mathrm{C}$.The figures are identical for PMM15-48S15W



Typical Output Ripple and Noise. Vin(nom), Full Load



Typical Input Start-Up and Output Rise Characteristic Vin(nom), Full Load



Transient Response to Dynamic Load Change from 100% to 75% to 100% of Full Load ; Vin(nom)



Using ON/OFF Voltage Start-Up and Vo Rise Characteristic Vin(nom), Full Load

All test conditions are at $25^\circ\!\mathrm{C}$.The figures are identical for PMM15-48S24W



Efficiency Versus Output Load



Power Dissipation Versus Output Load



Efficiency Versus Input Voltage.



Derating Output Load Versus Ambient Temperature and Airflow Vin(nom)

All test conditions are at $25^\circ\!\mathrm{C}$.The figures are identical for PMM15-48S24W



Typical Output Ripple and Noise. Vin(nom), Full Load



Typical Input Start-Up and Output Rise Characteristic Vin(nom), Full Load



Transient Response to Dynamic Load Change from 100% to 75% to 100% of Full Load ; Vin(nom)



Using ON/OFF Voltage Start-Up and Vo Rise Characteristic Vin(nom), Full Load

All test conditions are at $25^\circ\!\mathrm{C}.$ The figures are identical for PMM15-12D05



Efficiency Versus Output Load



Power Dissipation Versus Output Load



Efficiency Versus Input Voltage.



Derating Output Load Versus Ambient Temperature and Airflow Vin(nom)

All test conditions are at 25° C. The figures are identical for PMM15-12D05



Typical Output Ripple and Noise. Vin(nom), Full Load



Transient Response to Dynamic Load Change from 100% to 75% to 100% of Full Load ; Vin(nom)



Typical Input Start-Up and Output Rise Characteristic Vin(nom), Full Load



Using ON/OFF Voltage Start-Up and Vo Rise Characteristic Vin(nom), Full Load

All test conditions are at 25 $^\circ\!\mathrm{C}.$ The figures are identical for PMM15-12D12



Efficiency Versus Output Load



Power Dissipation Versus Output Load



Efficiency Versus Input Voltage.



Derating Output Load Versus Ambient Temperature and Airflow Vin(nom)

All test conditions are at 25 $^\circ\!\mathrm{C}.$ The figures are identical for PMM15-12D12



Typical Output Ripple and Noise. Vin(nom), Full Load



Typical Input Start-Up and Output Rise Characteristic Vin(nom), Full Load



Transient Response to Dynamic Load Change from 100% to 75% to 100% of Full Load ; Vin(nom)



Using ON/OFF Voltage Start-Up and Vo Rise Characteristic Vin(nom), Full Load

All test conditions are at $25^\circ\!\mathrm{C}.$ The figures are identical for PMM15-12D15



Efficiency Versus Output Load



Power Dissipation Versus Output Load



Efficiency Versus Input Voltage.



Derating Output Load Versus Ambient Temperature and Airflow Vin(nom)

All test conditions are at $25^\circ\!\mathrm{C}.$ The figures are identical for PMM15-12D15



Typical Output Ripple and Noise. Vin(nom), Full Load



Typical Input Start-Up and Output Rise Characteristic Vin(nom), Full Load



Transient Response to Dynamic Load Change from 100% to 75% to 100% of Full Load ; Vin(nom)



Using ON/OFF Voltage Start-Up and Vo Rise Characteristic Vin(nom), Full Load

All test conditions are at $25^\circ\!\mathrm{C}.$ The figures are identical for PMM15-24D05



Efficiency Versus Output Load



Power Dissipation Versus Output Load



Efficiency Versus Input Voltage.



Derating Output Load Versus Ambient Temperature and Airflow Vin(nom)

All test conditions are at $25^\circ\!\mathrm{C}$.The figures are identical for PMM15-24D05



Typical Output Ripple and Noise. Vin(nom), Full Load



Transient Response to Dynamic Load Change from 100% to 75% to 100% of Full Load ; Vin(nom)



Typical Input Start-Up and Output Rise Characteristic Vin(nom), Full Load



Using ON/OFF Voltage Start-Up and Vo Rise Characteristic Vin(nom), Full Load

All test conditions are at 25 $^\circ\!\mathrm{C}.$ The figures are identical for PMM15-24D12



Efficiency Versus Output Load



Power Dissipation Versus Output Load



Efficiency Versus Input Voltage.



Derating Output Load Versus Ambient Temperature and Airflow Vin(nom)

All test conditions are at $25^\circ\!\mathrm{C}$.The figures are identical for PMM15-24D12



Typical Output Ripple and Noise. Vin(nom), Full Load



Typical Input Start-Up and Output Rise Characteristic Vin(nom), Full Load



Transient Response to Dynamic Load Change from 100% to 75% to 100% of Full Load ; Vin(nom)



Using ON/OFF Voltage Start-Up and Vo Rise Characteristic Vin(nom), Full Load

All test conditions are at $25^\circ\!\mathrm{C}.$ The figures are identical for PMM15-24D15



Efficiency Versus Output Load



Power Dissipation Versus Output Load



Efficiency Versus Input Voltage.



Derating Output Load Versus Ambient Temperature and Airflow Vin(nom)

All test conditions are at $25^\circ\!\mathrm{C}.The$ figures are identical for PMM15-24D15



Typical Output Ripple and Noise. Vin(nom), Full Load



Transient Response to Dynamic Load Change from 100% to 75% to 100% of Full Load ; Vin(nom)



Typical Input Start-Up and Output Rise Characteristic Vin(nom), Full Load



Using ON/OFF Voltage Start-Up and Vo Rise Characteristic Vin(nom), Full Load

All test conditions are at $25^\circ\!\mathrm{C}.$ The figures are identical for PMM15-48D05



Efficiency Versus Output Load



Power Dissipation Versus Output Load



Efficiency Versus Input Voltage.



Derating Output Load Versus Ambient Temperature and Airflow Vin(nom)

All test conditions are at $25^\circ\!\mathrm{C}.$ The figures are identical for PMM15-48D05



Typical Output Ripple and Noise. Vin(nom), Full Load



Transient Response to Dynamic Load Change from 100% to 75% to 100% of Full Load ; Vin(nom)



Typical Input Start-Up and Output Rise Characteristic Vin(nom), Full Load



Using ON/OFF Voltage Start-Up and Vo Rise Characteristic Vin(nom), Full Load

All test conditions are at $25^\circ\!\mathrm{C}.$ The figures are identical for PMM15-48D12



Efficiency Versus Output Load



Power Dissipation Versus Output Load

Derating Output Load Versus Ambient Temperature and Airflow Vin(nom)

All test conditions are at $25^\circ\!\mathrm{C}.The$ figures are identical for PMM15-48D12

Typical Output Ripple and Noise. Vin(nom), Full Load

Transient Response to Dynamic Load Change from 100% to 75% to 100% of Full Load ; Vin(nom)

Typical Input Start-Up and Output Rise Characteristic Vin(nom), Full Load

Using ON/OFF Voltage Start-Up and Vo Rise Characteristic Vin(nom), Full Load

All test conditions are at $25^\circ\!\mathbb{C}.The$ figures are identical for PMM15-48D15

Efficiency Versus Output Load

Power Dissipation Versus Output Load

Derating Output Load Versus Ambient Temperature and Airflow Vin(nom)

All test conditions are at $25^\circ\!\mathrm{C}.The$ figures are identical for PMM15-48D15

Typical Output Ripple and Noise. Vin(nom), Full Load

Transient Response to Dynamic Load Change from 100% to 75% to 100% of Full Load ; Vin(nom)

Typical Input Start-Up and Output Rise Characteristic Vin(nom), Full Load

Using ON/OFF Voltage Start-Up and Vo Rise Characteristic Vin(nom), Full Load

All test conditions are at $25^\circ\!\mathrm{C}$.The figures are identical for PMM15-24D05W

Efficiency Versus Output Load

Power Dissipation Versus Output Load

Efficiency Versus Input Voltage.

Derating Output Load Versus Ambient Temperature and Airflow Vin(nom)

All test conditions are at $25^\circ\!\mathrm{C}$.The figures are identical for PMM15-24D05W

Typical Output Ripple and Noise. Vin(nom), Full Load

Transient Response to Dynamic Load Change from 100% to 75% to 100% of Full Load ; Vin(nom)

Typical Input Start-Up and Output Rise Characteristic Vin(nom), Full Load

Using ON/OFF Voltage Start-Up and Vo Rise Characteristic Vin(nom), Full Load

All test conditions are at $25^\circ\!\mathrm{C}$.The figures are identical for PMM15-24D12W

Efficiency Versus Output Load

Power Dissipation Versus Output Load

Efficiency Versus Input Voltage.

Derating Output Load Versus Ambient Temperature and Airflow Vin(nom)

All test conditions are at $25^\circ\!\mathrm{C}$.The figures are identical for PMM15-24D12W

Typical Output Ripple and Noise. Vin(nom), Full Load

Typical Input Start-Up and Output Rise Characteristic Vin(nom), Full Load

Transient Response to Dynamic Load Change from 100% to 75% to 100% of Full Load ; Vin(nom)

Using ON/OFF Voltage Start-Up and Vo Rise Characteristic Vin(nom), Full Load

All test conditions are at $25^\circ\!\mathrm{C}$.The figures are identical for PMM15-24D15W

Efficiency Versus Output Load

Power Dissipation Versus Output Load

Derating Output Load Versus Ambient Temperature and Airflow Vin(nom)

All test conditions are at $25^\circ\!\mathrm{C}$.The figures are identical for PMM15-24D15W

Typical Output Ripple and Noise. Vin(nom), Full Load

Transient Response to Dynamic Load Change from 100% to 75% to 100% of Full Load ; Vin(nom)

Typical Input Start-Up and Output Rise Characteristic Vin(nom), Full Load

Using ON/OFF Voltage Start-Up and Vo Rise Characteristic Vin(nom), Full Load

All test conditions are at $25^\circ\!\mathrm{C}$.The figures are identical for PMM15-48D05W

Efficiency Versus Output Load

Power Dissipation Versus Output Load

Efficiency Versus Input Voltage.

Derating Output Load Versus Ambient Temperature and Airflow Vin(nom)

All test conditions are at $25^\circ\!\mathrm{C}$.The figures are identical for PMM15-48D05W

Typical Output Ripple and Noise. Vin(nom), Full Load

Transient Response to Dynamic Load Change from 100% to 75% to 100% of Full Load ; Vin(nom)

Typical Input Start-Up and Output Rise Characteristic Vin(nom), Full Load

Using ON/OFF Voltage Start-Up and Vo Rise Characteristic Vin(nom), Full Load

All test conditions are at $25^\circ\!\mathrm{C}$.The figures are identical for PMM15-48D12W

Efficiency Versus Output Load

Power Dissipation Versus Output Load

Efficiency Versus Input Voltage.

Derating Output Load Versus Ambient Temperature and Airflow Vin(nom)

All test conditions are at $25^\circ\!\mathrm{C}$.The figures are identical for PMM15-48D12W

Typical Output Ripple and Noise. Vin(nom), Full Load

Transient Response to Dynamic Load Change from 100% to 75% to 100% of Full Load ; Vin(nom)

Typical Input Start-Up and Output Rise Characteristic Vin(nom), Full Load

Using ON/OFF Voltage Start-Up and Vo Rise Characteristic Vin(nom), Full Load

All test conditions are at $25^\circ\!\mathrm{C}$.The figures are identical for PMM15-48D15W

Efficiency Versus Output Load

Power Dissipation Versus Output Load

Derating Output Load Versus Ambient Temperature and Airflow Vin(nom)

All test conditions are at $25^\circ\!\mathrm{C}$.The figures are identical for PMM15-48D15W

Typical Output Ripple and Noise. Vin(nom), Full Load

Transient Response to Dynamic Load Change from 100% to 75% to 100% of Full Load ; Vin(nom)

Typical Input Start-Up and Output Rise Characteristic Vin(nom), Full Load

Using ON/OFF Voltage Start-Up and Vo Rise Characteristic Vin(nom), Full Load