



MPQ60W Series

Medical Grade 60W on board type DC/DC Converter



Input Range	Output Voltage	Means of Protection	Clearance/ Creepage	Leakage Current	Isolation Voltage	Operating Altitude	Package
9 - 36VDC 18-75VDC	5, 5.1, 12, 15, 24VDC ±12, ±15VDC	2 x MOPP	8mm	4.5µA max.	5000VAC	5000m	Quarter Brick

P-DUKE offers a broad range of 2xMOPP medical DC/DC converters from 1W to 60W

MPQ60W a unique medical grade 60W DC/DC converter

MPQ60W series is a high-performance DC/DC converter widely used in medical and homecare applications, such as: laser treatment, electrosurgical systems, physiotherapy chairs, medical aesthetic, endoscopic devices, patient monitoring, drug delivery, C-arms, defibrillation and air ambulance, etc.

This series is certified according to IEC/EN/ANSI/AAMI ES 60601-1, IEC/EN 60601-1-2, 4th edition and IEC/EN/UL 62368-1. It is designed with 5000VAC reinforced 2 x MOPP insulation, 250VAC working voltage and 8mm air clearance and creepage distance. These DC/DC converters can also be used for the most stringent classification of type-CF applied part (cardiac floating) equipment, due to its low leakage current less than 4.5µA.

The high-density power converters provide 60W output power in a quarter brick package. They have a patented transformer design, which allows the converters to perform with an efficiency of up to 92.5%. The optimized manufacturing process and construction, certified to ISO 13485, guarantees highest reliability. They have a 4:1 input range of 9-36VDC and 18-75VDC and are equipped with circuits for over/under-voltage protection, over-current and short-circuit and over-temperature protection. The available ISO 14971 Risk Management file supports designers in preparing technical documentation for medical devices.

Moreover, shock and vibration are compliant with MIL-STD-810F. With an operating altitude of up to 5000 meters and a wide operating ambient temperature range of -40°C to +105°C, makes these converters the ideal choice for powering any medical application where a safety barrier is required.



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