

NAK ELECTRONICS PRIVATE LIMITED Plot # 543K Pace City-II Sector-37 Gurugram - 122004 Haryana India.



DC I/P & MULTI O/P DC TO DC CONVERTER Rx (450W)

(Application: Naval)

Features:

- ➤ Input Range 18~36VDC
- ➤ High Efficiency up to ≥80%
- Input Reverse polarity protection
- EMI/EMC MIL-STD-461F
- Over Temperature Protection
- Short circuit Protection
- Over Current Protection
- High Power Density
- Cooling Natural Cooled

Technical Specifications:

Input:

Input Nominal : 24VDC Range : 18~36VDC

Current : Nominal 23Amp.@24VDC

Max. 31@18VDC

Output:

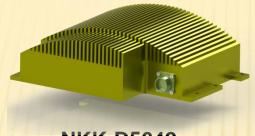
	Output-1	Output-2	Output-
Voltage	: +15VDC	-15VDC	+5VDC
Current	: 10Amp.	10Amp.	30Amp.
Power	: 150W	150W	150W

Regulation:

Line Regulation : ≤1% from LL to HL Load Regulation : ≤1% from NL to FL

Efficiency : ≥80% At full load on nominal I/P

Ripple : ≤10mV pk-pk



NKK-D5642

Environmental:

Operating Temp. : -10°C to +85°C Cooling : Natural Cooled

Protection:

Input Reverse polarity protection

Short Circuit for all Outputs

Over Temperature

Vibration Test:

Frequency Range(Hz) X-axis Y-axis Z-axis

10Hz to 30Hz
31Hz to 60Hz
20Min. 20Min. 20Min. 20Min.
20Min. 20Min. 20Min.

61Hz to 100Hz 20Min. 20Min. 20Min.

EMI/EMC Compliance to MIL STD-461F:

 CS114 : Conducted Susceptibility power leads & cables injection 10 KHz to 200MHz.

CS115 : Conducted Susceptibility power leads & cables impulse excitation: 30Hz. for 1 Minutes

CS116 : Conducted Susceptibility power leads & cables

10KHz to 100MHZ.

CS118: ±8kV 5 Pluses @ Connector end body.

 CS101 : Conducted Susceptibility power cable injection 30Hz to 150KHz.

CE101 : Conducted Emission 30Hz to 10KHz.
CE102 : Conducted Emission 10KHz to 10MHz.

RE101: Radiated Emission Magnetic 30Hz to 100KHz.
RE102: Radiated Emission Electric field 10KHz to 18 GHz

RS103 : Radiated Susceptibility 2MHz to 18GHz:200V/m

ESS:

High Temperature : +55±2°C duration 48Hrs. Low Temperature : -10±2°C duration 48Hrs.

Mechanical:

Mounting: Chassis MountDepth: 190mmWidth: 250mmHeight: 74 mmWeight: ≤4.2 Kg

Material : Aluminum (HE30)

Protective Treatment: Yellow Chromate Conversion