



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

DUAL INPUT & MULTI OUTPUT POWER SUPPLY (800W)

(Application: Air Force Ground)



Features:

- Universal AC I/P Range 85~264VAC
- DC I/P Range 22~28VDC
- High Efficiency up to 90%
- Input Priority – AC Input priority, auto switch to DC input when AC input fail or unavailable.
- PFC (Power Factor Correction) Inbuilt
- EMI/EMC - MIL-STD-461F
- Ingress Protection Rating - IP-65
- Over Temperature Protection
- Short circuit Protection
- Over Current Protection
- Low Inrush Current
- High Power Density
- Cooling – Natural Cooled

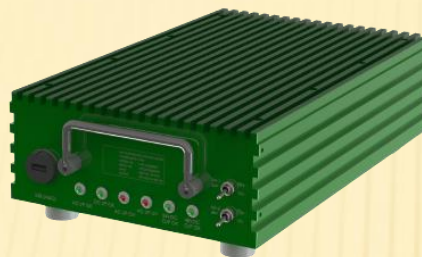
Technical Specifications:

Input: Dual

Input - 1	: 220VAC
Range	: 85 to 264VAC, 47-53 Hz
Input – 2	: 24 VDC
Range	: 22 to 28 VDC
Power Factor	: ≥0.90
Current	: Nominal 4.4A @230VAC
	Max. 10@100VAC
	Nominal 38A @ 24VDC
	Max. 41A @ 22VDC

Output:

	Output-1	Output-2
Voltage	: 24VDC	48VDC
Current	: 22Amp.	6Amp.
Power	: 528W	288W
Over Curr. Prot:	≥23Amp.	≥6.5Amp.



NAK-AD200800

Regulation:

Line Regulation	: 0.5% from LL to HL
Load Regulation	: 2% from NL to FL
Efficiency	: ≥90% at full load on the nominal I/P

Environmental:

Operating Temp.	: -30°C to +55°C
Storage Temp.	: -40°C to 70°C.
Relative Humidity	: 20-95% RH (Non- condensing)
Cooling	: Natural Cooled
Altitude	: 5500Mtr.
IP Rating	: IP-65/Rain Test

Protection:

- AC Input Under Voltage
- AC Input Over Voltage
- DC Input Under Voltage
- Output Over Current for Both Outputs
- Short Circuit for Both Outputs
- Over Temperature

LED Indications:

- AC Input OK
- AC Input U/V
- AC Input O/V
- DC Input OK
- Output OK (24VDC)
- Output OK (48VDC)

EMI/EMC Compliance to MIL STD-461F:

- CS114 : Power leads & cables injection 10 KHz to 200MHz.
- CS115 : Power leads & cables impulse excitation: 30Hz.for 1 Minutes
- CS116 : Power leads & cables 10KHz to 100MHz.
- CS118 : ±8kV 5 Pluses @ Connector end body.
- CS101 : Power cable injection 30Hz to 150KHz
- CE102 : Conducted Emissions Power Leads10KHz to 10MHz.
- RE102 : Radiated Emission Electric field 10KHz to 18 GHz
- RS103 : Radiated Susceptibility 2MHz to 18GHz:50V/m

ESS:

High Temperature	: Operating 55±2°C duration 16Hrs. Storage 70±2°C duration 16Hrs.
Low Temperature	: Operating -30 ±2°C duration 16Hrs. Storage -40 ±2°C duration 16Hrs.
Damp Heat	: Temp +40±2°C, RH95% duration 16Hrs.
Altitude	: Operating Temp at -30±3°C Altitude 5500Mtr (60kpa)

Mechanical:

Mounting	: Portable or table top
Depth	: 330 mm (Excluded Handle and Connector).
Width	: 198.5mm
Height	: 96 mm (with legs)
Weight	: 7.3 Kg
Material	: Aluminum (HE30)
Protective Treatment	: Yellow Chromating
Color	: Olive Green Outer Body