

IO-Power IOP-DAPI-12243A-2

Outdoor Input 12VDC to 24VAC Power Inverter

(Special Design for Speed Dome 24VAC Power Solution)



IO-Power IOP-DAPI-12243A-2 is a specially designed outdoor DC to AC Inverter for 24VAC Speed Dome, adopting 12VDC input power, which is different from the usual adapter — input power 100~240VAC, output power 24VAC. It helps the system integrate (SI) easily collocate with 12VDC power source from the Outdoor DC UPS power system and 12VDC power source from the adapter (over 6A). It decreases the power transmission loss from DC to AC, then another power transmission loss from 110VAC~240VAC to 24VAC (about 15%~30% loss of electricity). Therefore, IOP-DAPI-12243A-2 is especially suitable for green energy power system, such as solar power system and wind power system. The electricity loss it saves makes 30% of cost benefit for the whole power system.

IOP-DAPI-12242A-2:

Input 12Vdc/ 6A~ (Recommended for 8A above will be better)

IOP-DAPI-24242A-2:

Input 24Vdc/ 3A~ (Recommended for 5A above will be better)

DC to AC Inverter is adopted industrial level of Iron metal thermal protection shell and waterproof dust reached IP67 of mechanism design and the Waterproof and heat-resistant beam head to handle the outside tough temperature at -30°C ~ +70°C to maintain the outdoor system normally working during day and night.


IO-Power IOP-DAPI-12243A-2 adopts 12VDC input power of high current. The output



of the conversion output is 60W and the peak power supply 100W maximum, enough for the normal Speed Dome which consumes 10~18W/H, and for the long-distance infrared rays Speed Dome, which consumes 18~35W/H. The 24VAC voltage and 2.5A current (and peak power supply 4A Max) can manage the transient current of Speed Dome which reaches 2~3A to reach the requirements of the Inverter of “Special Design for Speed Dome Power Solution”.

Adopting 12VDC input power can collocate with not only 12VDC power source from Outdoor DC UPS power systems, but also 12VDC power source from normal adapters (over 6A). Therefore, the applications are for 24VAC outdoor surveillance system, 24VAC outdoor emergency rescuing system, 24VAC mobile power supply system, 24VAC outdoor surveillance recording system, 24VAC outdoor public sign and indication system, 24VAC outdoor financial security system, 24VAC elevator security monitoring system, 24VAC fire security system, 24VAC expressway charges trading surveillance system, etc.

IOP-DAPI-12243A-2 Specification

Model Number	IOP-DAPI-12243A-2
<p>Outdoor 12VDC to 24VAC Iron Airtight Housing IP 67</p>	
<p>Input DC Voltage</p>	<p>12VDC (10VDC~15VDC Max) **Before using, please confirm that the upper cover is marked with input 12Vdc / 6A~ or 24VDC / 3A~ voltage mode, please follow the instructions input voltage power supply.</p>
<p>Input DC Current</p>	<p>12VDC 6A~ (Recommended for 8A above will be better)</p>
<p>Output AC Voltage</p>	<p>24VAC (22VAC~28VAC Max)</p>
<p>Output AC Current</p>	<p>2.5A and peak power supply 4A Max</p>
<p>Output Power Frequency</p>	<p>47-63 Hz</p>
<p>Output Power Consume Watts</p>	<p>Operating power 60W and peak power supply 100W Max</p>



Input Connector	DC Female Jack, 1mm spring leaf in $\Phi 6.5\text{mm}$, OD: 5.5mm / Pin ID: 2.0mm, insertion depth: 7.8mm The chassis can be inserted into the joint depth: 30mm
Output Connector	DC Female Jack, 1mm spring leaf in $\Phi 6.5\text{mm}$, OD: 5.5mm / Pin ID: 2.0mm, insertion depth: 7.8mm The chassis can be inserted into the joint depth: 30mm
DC Plug to DC Plug Connector Cable (Newly added product accessories)	DC Plug to DC Plug Connector Cable : OD: 5.5mm / ID 2.1mm, Barrel Length: 29.2mm Cable Length: 19cm, OD 5.0mm, 18AWG
Transform Efficiency	80% +-5%
Protection	Input power overcurrent protection Low input voltage protection High input voltage protection Output power overcurrent protection Short circuit protection Imported power polarity protection for anti-welding Power surge 5KVA protection
Industrial Housing & Connector	Iron Airtight Housing IP 67 Gland Connector ** Top cover marked 12VDC / 6A ~ and 24VDC / 3A ~ of the shipping product input voltage mark distinction
Operating Temperature	-30°C ~ +70°C (Use at -30°C environment, please be sure to inform in advance, related accessories and wires should be replaced; Recommends that the equipment will be installed in the power distribution box)



Storage Temperature	-40°C ~ +80°C
Rel. Humidity	10~95%RH
Dimension	210mm(L) x 92mm(W) x 50mm(H)
Weight	0.5Kg (body); 0.7Kg (packing with fixing sheet)
Housing	IP67
Certification	CE : EMC Directive 2014/30/EU for CE Marking / EN55032:2015 Class B FCC: FCC Part 15 Subpart B Class B / CISPR 22 : 2008 Class B / ANSI C63.4 : 2014
Installation	1.Street lamp pole mount or Upright pole mount 2.Wall mount installation
Warranty	12 months

Remark 1: Product specifications change, without notice, consultation with agent or dealer before buying the latest specifications

Remark 2: Before using, please confirm that the upper cover is marked with input 12Vdc / 6A ~ or 24VDC / 3A ~ voltage mode, please follow the instructions input voltage power supply.