

Irinos IR-PU

Power supply for the Irinos-System



- Max. output power 50 W
- 115 / 230 V AC
- Protection class IP65 with appropriate connectors
- Long life expectancy (industrial premium power supply)
- Signalling of high load condition via LED



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Power supply for multiple Irinos boxes

The IR-PU is suitable for supplying multiple Irinos-Boxes with 24 V DC via the ILink-Interface. Since the ILink-Interface combines data transfer, synchronisation and voltage forwarding via a single cable, cabling of the Irinos system is very easy.

The power consumption of the Irinos-Boxes depends on their type and the connected probes and other loads. The typical power consumption of an Irinos-Box itself is between 3,5 .. 5 watt. Further details can be found in the respective datasheets.

High-Load signalling

To check whether the output power of the IR-PU is near to its limit, it has a LED „High Load“. It is turned on, if about 95 % of the maximum load have been reached. It is advised not to exceed this limit permanently.

Application notes

- If the power supply IR-PU is the last Irinos-Box (i.e. only one of the DSUB connectors is used), the maximum length of the ILink connection cable IR-ILINK is 30 cm.
- If the power supply is located between other Irinos-Boxes (i.e. both DSUB connectors are used), this length restriction does not apply.
- Only one power supply is allowed per Irinos-System.
- Casing, please note: the power supply IR-PU has a depth of 57 mm. Standard Irinos-Boxes have a depth of 33 mm.
- If external loads are dynamically turned on, e.g. a valve via a digital output, the power supply may be overloaded for a short period of time. This may not be signalled via the „High Load“ LED under all circumstances. Use a more powerful power supply, if necessary.



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Specifications

Input	
Voltage range	85 - 265 V AC (47 - 63 Hz)
Input current (typical)	0,7 / 0,4 A (115 / 230 V AC)
Efficiency (typical)	87 %
UL-certified	internal power supply: yes, Device IR-PU: no

Output	
Nominal voltage	24 V DC
Max. current	2,2 A
Ripple	150 mV
Rated power	50 W

Casing	
	Aluminium designer housing, black anodized, rear plate clear anodized, front plate with cover foil
Dimensions	160 x 98 x 57 mm (H x W x D)
Protection class	IP65 if appropriate connectors are used. Exception: Mains plug
Mounting (standard)	2 tapped brushes M4 on rear side
Mounting options	<ul style="list-style-type: none">○ adaption for hat rail mounting○ adaption for aluminium mounting 40mm, Item or similar○ adaption for front side mounting

Miscellaneous	
Temperature range	Operation: 5 - 45 °C up to 80% load / 5 - 40°C at full load Storage: 0 - 70 °C
Status indication	Status-LED (green) for „power supply active“ Load-LED (yellow) for „~ 95% of maximum load reached“



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Ordering information

Preferred types have shorter lead times.

Irinos power supply		
Order-No.	Description	Preferred type
828-5017	IR-PU-50-HWS-F Input: 115 / 230 V AC Output: 24 V DC Max. output power: 50 Watt Mains plug: Schuko (Type F)	Yes

Accessories labelling and mounting		
Order-No.	Description	Preferred type
828-5041	IR-MHRM-1 Adapter for hat rail mounting	Yes
828-5042	IR-MFFM-1 Front-side mounting kit	Yes
828-5043	IR-MITEM-40 Mounting bracket for aluminium profile 40mm (Item or similar)	Yes
828-5044	IR-MWIP-40 Stand for aluminium profile 40mm (Item or similar)	Yes



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Accessories ILink connection cable between multiple Irinos boxes		
Order-No.	Description	Preferred type
828-5055	ILink connection cable IR-ILINK-002-IP40 Length 0,2 m, protection class IP40	Yes
828-5056	ILink connection cable IR-ILINK-010-IP40 Length 1 m, protection class IP40	Yes
828-5057	ILink connection cable IR-ILINK-020-IP40 Length 2 m, protection class IP40	
828-5058	ILink connection cable IR-ILINK-030-IP40 Length 3 m, protection class IP40	
828-5059	ILink connection cable IR-ILINK-050-IP40 Length 5 m, protection class IP40	
828-5060	ILink connection cable IR-ILINK-100-IP40 Length 10 m, protection class IP40	
828-5061	ILink connection cable IR-ILINK-002-IP65 Length 0,2 m, protection class IP65	
828-5062	ILink connection cable IR-ILINK-010-IP65 Length 1 m, protection class IP65	
828-5063	ILink connection cable IR-ILINK-020-IP65 Length 2 m, protection class IP65	
828-5064	ILink connection cable IR-ILINK-030-IP65 Length 3 m, protection class IP65	
828-5065	ILink connection cable IR-ILINK-050-IP65 Length 5 m, protection class IP65	
828-5066	ILink connection cable IR-ILINK-100-IP65 Length 10 m, protection class IP65	



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Subject to change without notice.



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