

# Irinos IR-PU

Power supply for the Irinos-System



**„Legacy Product“:**  
Remains available, but  
not recommended for new  
customers.

- 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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# Irinos IR-PU

## 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 bushes M4 on rear side
Mounting options	<ul style="list-style-type: none"><li>○ adaption for hat rail mounting</li><li>○ adaption for aluminium mounting 40mm, Item or similar</li><li>○ adaption for front side mounting</li></ul>

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	Status
828-5017	<b>IR-PU-50-HWS-F</b> Input: 115 / 230 V AC Output: 24 V DC Max. output power: 50 Watt Mains plug: Schuko (Type F)	Legacy product: remains available

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



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Please note:

- The maximum bus length of each Irinos system is 20m.
- If the power supply IR-PU is used as the first or the last box of the system, only cables with 0,2m length are allowed.

<b>Accessories ILink connection cable</b> between multiple Irinos boxes		
<b>Order- No.</b>	<b>Description</b>	<b>Status</b>
828-5055	ILink connection cable <b>IR-ILINK-002-IP40</b> Length 0,2 m, protection class IP40	<b>Preferred type</b>
828-5056	ILink connection cable <b>IR-ILINK-010-IP40</b> Length 1 m, protection class IP40	<b>Preferred type</b>
828-5057	ILink connection cable <b>IR-ILINK-020-IP40</b> Length 2 m, protection class IP40	Available
828-5058	ILink connection cable <b>IR-ILINK-030-IP40</b> Length 3 m, protection class IP40	<b>Preferred type</b>
828-5059	ILink connection cable <b>IR-ILINK-050-IP40</b> Length 5 m, protection class IP40	Available
828-5060	ILink connection cable <b>IR-ILINK-100-IP40</b> Length 10 m, protection class IP40	Available
828-5061	ILink connection cable <b>IR-ILINK-002-IP65</b> Length 0,2 m, protection class IP65	<b>Preferred type</b>
828-5062	ILink connection cable <b>IR-ILINK-010-IP65</b> Length 1 m, protection class IP65	Available
828-5063	ILink connection cable <b>IR-ILINK-020-IP65</b> Length 2 m, protection class IP65	Available
828-5064	ILink connection cable <b>IR-ILINK-030-IP65</b> Length 3 m, protection class IP65	Available
828-5065	ILink connection cable <b>IR-ILINK-050-IP65</b> Length 5 m, protection class IP65	Available
828-5066	ILink connection cable <b>IR-ILINK-100-IP65</b> Length 10 m, protection class IP65	Available
828-5079	ILink connection cable <b>IR-ILINK-150-IP65</b> Length 15 m, protection class IP65	Special type
828-5077	ILink connection cable <b>IR-ILINK-200-IP65</b> Length 20 m, protection class IP65	Special type



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