

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)



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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.

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.



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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">○ 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“



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Ordering information

Preferred types have shorter lead times.

Irinos power supply		
Order-No.	Description	Status
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)	Legacy product: remains available

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

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



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Subject to change without notice.



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Product / Process Change Notification

Change Type	Minor functional change
Affected Products	All Irinos IR-PU-xx-HWS-x power supplies . Order numbers: 828-5017, 828-5025, 828-5032, 828-5039
Effective Date	2022-04-01
Required customer action	Update of documentation
Reason for change	Maintaining delivery capability due to component shortage.
Description	The IR-PU-xx-HWS-x power supplies have been equipped with overload detection. If about 95% of the maximum load had been reached, a "High Load" LED signalled this. Due to chip shortage, this function has been removed. No changes apply to the power supply section, e.g. max output power.
Data Sheet Change	Yes