

THE REVOLUTIONARY

IRES KRÄFT

...a solar revolution...



...get the best value for
german quality...



INTERNET
READY

DUAL
MPPT

LOW CURRENT
DISTORTION

STABLE POWER
QUALITY

✓ German Quality Standards

All IRES Kräft inverters are manufactured to strict german quality standards. All these solar inverters undergo stringent in-line production tests which are more demanding than those required by industrial standards.



✓ Quality Suppliers

All the components used in IRES solar inverters are sourced from industry leading component manufacturers from across the world. Some of them are INFINEON, Epcos electronics, LEM, VAC, Fairchild, Littlefuse, Kemet electronics, Amphenol, Panasonic and NIPPON CHEMI-CON.



✓ Testing

Strict and rigorous quality control tests are carried out to ensure that all IRES solar inverters meet all required standards, and to ensure that these inverters perform at their peak at all times.



✓ Performance & Monitoring

All IRES Kräft are internet ready. Their performance can be monitored at all times, including maintaining a database of its performance over time.



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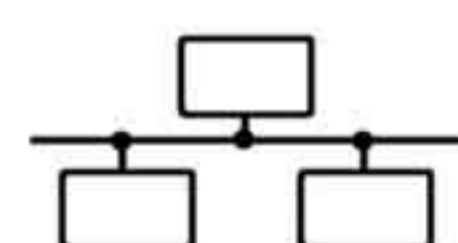
...a solar revolution...



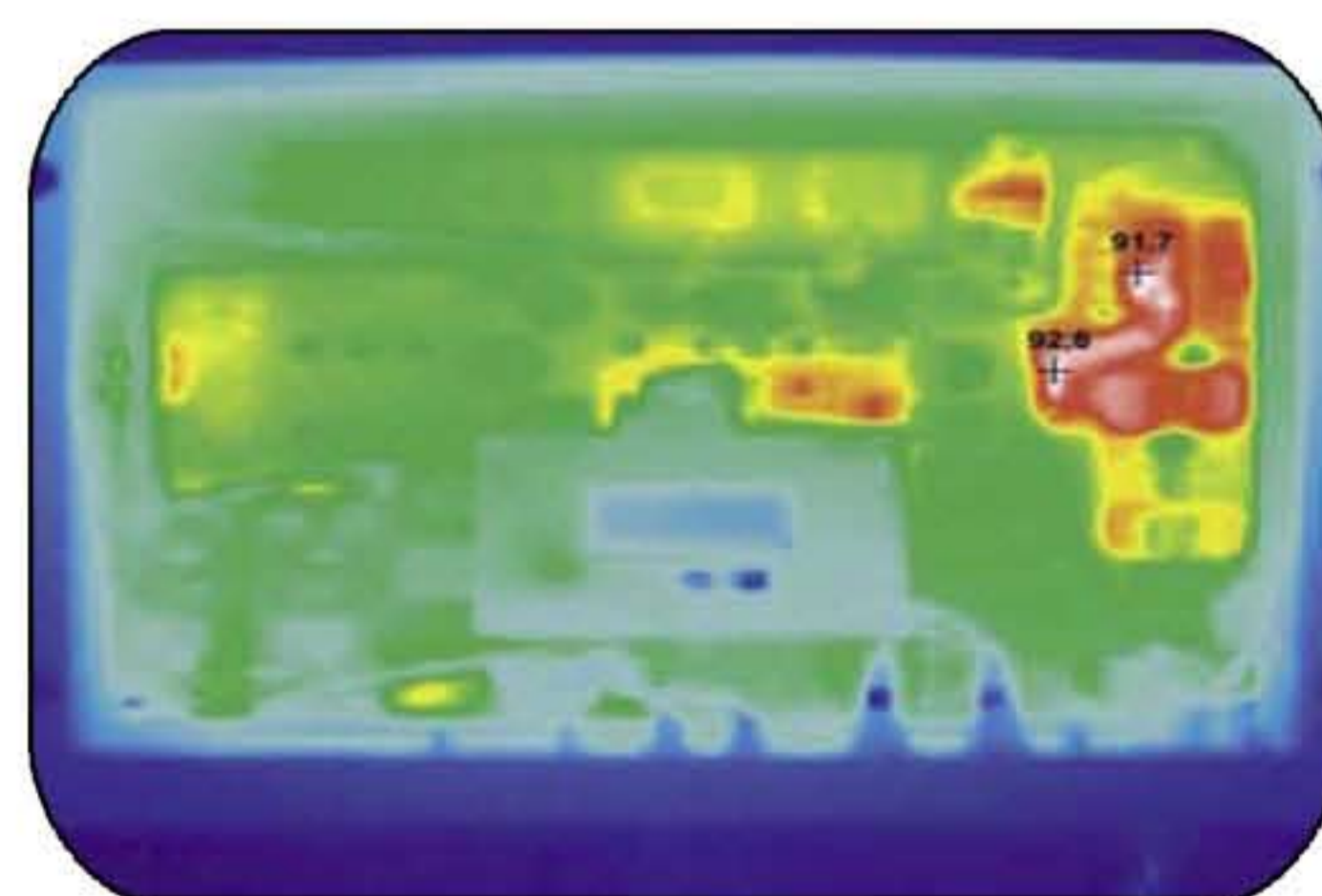
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PRODUCT CODE	IRES KRÄFT 3.0	IRES KRÄFT 4.0	IRES KRÄFT 5.0
Input (DC)	3.0 KW	4.0 KW	5.0 KW
Max. power	3200 W	4200 W	5200 W
Max. DC voltage	550 V	550 V	550 V
MPPT DC voltage range	125 - 440 V	125 - 440 V	125 - 440 V
Turn off DC voltage	150 V	150 V	150 V
Max. DC current	15 A	15 A	16 A
Nominal DC voltage	360 V	360 V	360 V
Number of DC connections	2	2	2
DC-connection	Amphenol H4	Amphenol H4	Amphenol H4
Number of MPP Trackers	2	2	2
Output (AC)			
Max. AC power	3000	4000	5000
Nominal AC power	3000 W	4000 W	5000 W
Max. AC current	15.0 A	20.0 A	25.0 A
Nominal AC current	13.0 A	17.4 A	21.7 A
Power connection	Single Phase	Single Phase	Single Phase
Power Factor	1	1	> 0.99
Total Harmonic Distortion (THD) at nominal output	<2%	<2%	<2%
AC connector	plug-in connector	plug-in connector	plug-in connector
Power Consumption			
Power consumption at night	< 0.2 W	< 0.2 W	< 0.2 W
Power consumption at standby	6 W	6 W	6 W
Efficiency			
Max. efficiency at 360 VDC	97.60%	97.60%	97.70%
Euro efficiency at 360 VDC	96.68%	96.80%	97.10%
MPPT efficiency	99.50%	99.50%	99.50%
Safety and Protection			
Internal overvoltage protection	YES	YES	YES
DC insulation monitoring	YES	YES	YES
Earth fault protection	YES	YES	YES
Grid monitoring	YES	YES	YES
Earth fault current monitoring	YES	YES	YES
DC current monitoring	YES	YES	YES
Islanding protection	YES	YES	YES
Dimensions and Weight			
Dimensions (WxHxD)	525x425x175 mm	525x425x175 mm	525x425x190 mm
Weight	23 kg	23 kg	26 kg
Environmental Limits			
Operating temperature range	-25 deg.C to +60 deg.C	-25 deg.C to +60 deg.C	-25 deg.C to +60 deg.C
Relative humidity	0% to 98%, no condensation	0% to 98%, no condensation	0% to 98%, no condensation
Maximum altitude	2000 m	2000 m	2000 m
Noise levels	< 40 dBA	< 40 dBA	< 40 dBA
General Data			
Isolation type	Transformerless	Transformerless	Transformerless
Cooling type	Convection	Convection	Convection
LED display	3	3	3
LCD display		backlight, 16 x 2 character LCD	
Data logger		RS485, Optional (Wi-Fi, GPRS, Ethernet)	
Data communication interfaces		RS232 Optional	
Computer connection		RS232 Optional	
Standard warranty	5 years (optional 10 & 15 years)	5 years (optional 10 & 15 years)	5 years (optional 10 & 15 years)



GPRS



temperature distribution

distributed by



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