



typical applications

pedestal spot welder



miniature bench welder



robots



drum welder



iPAK medium frequency systems

data sheet



A better way to weld

By utilising cutting-edge power switching technology, this welding system has a high-efficiency inverter power pack and compact transformer unit, resulting in impressive welding characteristics and low power consumption. A separate weld control is unnecessary since the iPAK has a fully integrated weld processor. The iPAK system can be used for spot, seam and projection welding in applications from 360 Amps up to 1000 Amps. Alternatively, the power pack can be provided to retrofit into the customer's cabinet.

features	benefits
increased rate of heat input	reduced weld times
lower peak currents	less electrode wear
low transformer weight	smaller robots/increased speed
leading power factor	reduced maximum demand
3-phase supply	balanced load distribution
minimal design	high reliability
reduced secondary impedance	allows use of longer secondary cables
millisecond control	fast constant current response
integral i/o sequencer	often no additional PLC is required
optional fieldbus	InterBus-S, Profibus DP and DeviceNet
optional Ethernet	easy high speed data communications
optional i/o expansion	flexible machine control

options
 isolation contactors • fieldbus interfaces • network systems
 ELR/1 earth-leakage relay • ELCR/1 machine protection device
 i/o expansion, adaptive control systems

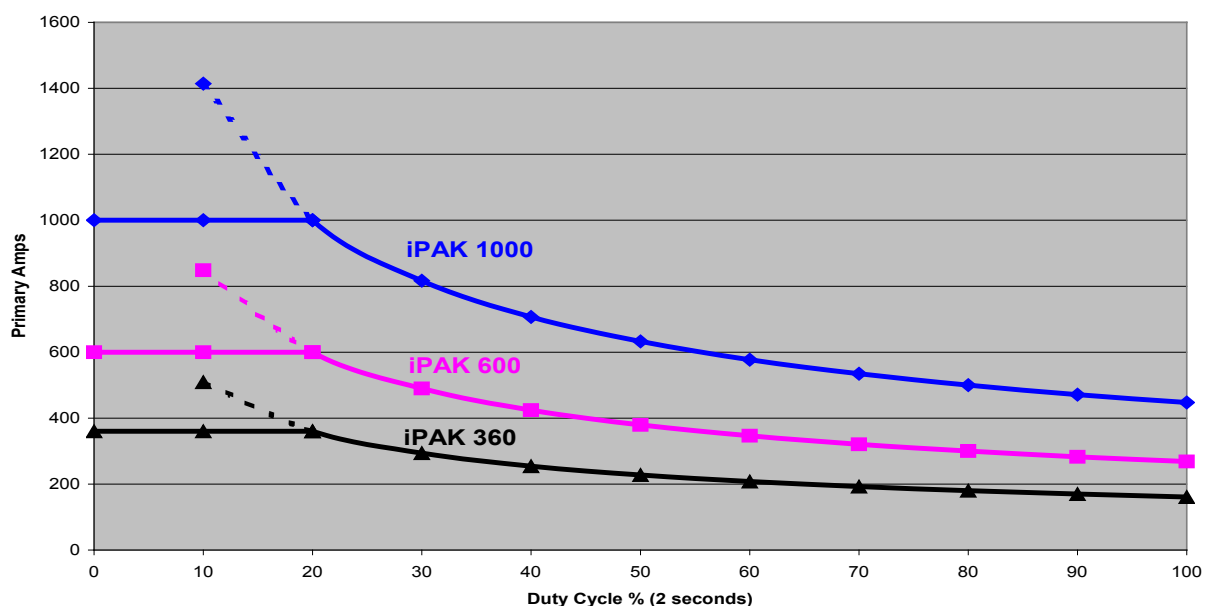
configurations
 360/600/1000 A models

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	iPAK 360A	iPAK 360W	iPAK 600A	iPAK 600W	iPAK 1000W
maximum output power @ 20% duty	234 kVA	234 kVA	390 kVA	390 kVA	480 kVA
maximum line input voltage	480 V ac @ 50/60 Hz	480 V ac @ 50/60 Hz	480 V ac @ 50/60 Hz	480 V ac @ 50/60 Hz	480 V ac @ 50/60 Hz
maximum output current (@ 20% duty)	360 A	360 A	600 A	600 A	1000 A
maximum continuous output current	161 A	161 A	268 A	268 A	447 A
maximum line input current per phase	209 A	209 A	347 A	347 A	577 A
continuous rms line current per phase @ 20% duty	93 A	93 A	155 A	155 A	258 A
power factor	leading	leading	leading	leading	leading
regulation feedback	secondary or primary	secondary or primary	secondary or primary	secondary or primary	secondary or primary
current regulation accuracy	±2%	±2%	±2%	±2%	±2%
current regulation repeatability	±1%	±1%	±1%	±1%	±1%
inverter switching frequency	1 kHz	1 kHz	1 kHz	1 kHz	1 kHz
maximum averaging time	2 seconds	2 seconds	2 seconds	2 seconds	2 seconds
water flow rate	Forced air cooled	5 l/min	Air cooled	8 l/min	10 l/min
maximum water inlet temperature	n/a	30° C	n/a	30° C	30° C
transformers					
40 kVA	✓	✓			
56 kVA 70:1	✓	✓	✓	✓	
76 kVA 54:1	✓	✓	✓	✓	✓
100 kVA 50:1			✓	✓	✓
170 kVA					✓

iPAK Resistance Welding Inverters



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