

TOSHIELD®

INVERTER WELDING SYSTEM



SHOPPING GUIDE



ARC 200 G	1 Phase	IGBT
INPUT VOLTAGE (V)	AC230V±15%	
INPUT POWER CAPACITY (KVA)	6	
NO-LOAD VOLTAGE (V)	58	
OUTPUT CURRENT RANGE (A)	10 - 200	
RATE INPUT CURRENT (A)	43.6	
POWER FACTOR	0.73	
NET WEIGHT (KG)	6	
DIMENSION (INCH)	15.5 x 6 x 11.5	
PLATE THICKNESS (MM)	2.0 - 6.0	
ELECTRODE SIZE (MM)	2.0 - 3.2	



ARC 200	1 Phase	MOSFET
INPUT VOLTAGE (V)	AC230V±15%	
INPUT POWER CAPACITY (KVA)	6	
NO-LOAD VOLTAGE (V)	58	
OUTPUT CURRENT RANGE (A)	10 - 200	
RATE INPUT CURRENT (A)	43.6	
POWER FACTOR	0.73	
NET WEIGHT (KG)	8	
DIMENSION (INCH)	15.5 x 6 x 11.5	
PLATE THICKNESS (MM)	2.0 - 6.0	
ELECTRODE SIZE (MM)	2.0 - 3.2	



ARC 250 ST	1 Phase	MOSFET
INPUT VOLTAGE (V)	AC230V±15%	
INPUT POWER CAPACITY (KVA)	7.4	
NO-LOAD VOLTAGE (V)	58	
OUTPUT CURRENT RANGE (A)	10 - 250	
RATE INPUT CURRENT (A)	43.6	
POWER FACTOR	0.73	
NET WEIGHT (KG)	10	
DIMENSION (INCH)	16 x 6 x 12	
PLATE THICKNESS (MM)	2.0 - 8.0	
ELECTRODE SIZE (MM)	2.0 - 3.2	



ARC 300 S	1 Phase	MOSFET
INPUT VOLTAGE (V)	AC230V±15%	
INPUT POWER CAPACITY (KVA)	9.4	
NO-LOAD VOLTAGE (V)	66	
OUTPUT CURRENT RANGE (A)	20 - 300	
RATE INPUT CURRENT (A)	14.4	
POWER FACTOR	0.93	
NET WEIGHT (KG)	13.5	
DIMENSION (INCH)	20 x 8 x 15	
PLATE THICKNESS (MM)	2.0 - 10.0	
ELECTRODE SIZE (MM)	2.0 - 4.0	



ARC 300 L	1&2 Phase	MOSFET
INPUT VOLTAGE (V)	AC230V/415V±15%	
INPUT POWER CAPACITY (KVA)	9.4	
NO-LOAD VOLTAGE (V)	66	
OUTPUT CURRENT RANGE (A)	20 - 300	
RATE INPUT CURRENT (A)	14.4	
POWER FACTOR	0.93	
NET WEIGHT (KG)	13.5	
DIMENSION (INCH)	20 x 8 x 15	
PLATE THICKNESS (MM)	2.0 - 10.0	
ELECTRODE SIZE (MM)	2.0 - 4.0	



ARC 300	3 Phase	MOSFET
INPUT VOLTAGE (V)	AC415V±15%	
INPUT POWER CAPACITY (KVA)	9.4	
NO-LOAD VOLTAGE (V)	66	
OUTPUT CURRENT RANGE (A)	20 - 300	
RATE INPUT CURRENT (A)	14.4	
POWER FACTOR	0.93	
NET WEIGHT (KG)	13.5	
DIMENSION (INCH)	20 x 8 x 15	
PLATE THICKNESS (MM)	2.0 - 10.0	
ELECTRODE SIZE (MM)	2.0 - 4.0	



ARC 400 GLT	1&2 Phase	IGBT
INPUT VOLTAGE (V)	AC230V/415±15%	
INPUT POWER CAPACITY (KVA)	16	
NO-LOAD VOLTAGE (V)	68	
OUTPUT CURRENT RANGE (A)	30 - 400	
RATE INPUT CURRENT (A)	27.7	
POWER FACTOR	0.93	
NET WEIGHT (KG)	13.5	
DIMENSION (INCH)	18 x 9 x 15	
PLATE THICKNESS (MM)	2.0 - 16.0	
ELECTRODE SIZE (MM)	2.0 - 5.2	



ARC 400	3 Phase	MOSFET
INPUT VOLTAGE (V)	AC415V±15%	
INPUT POWER CAPACITY (KVA)	18.2	
NO-LOAD VOLTAGE (V)	68	
OUTPUT CURRENT RANGE (A)	30 - 400	
RATE INPUT CURRENT (A)	27.7	
POWER FACTOR	0.93	
NET WEIGHT (KG)	24.5	
DIMENSION (INCH)	22.5 x 12 x 20	
PLATE THICKNESS (MM)	2.0 - 20.0	
ELECTRODE SIZE (MM)	2.0 - 5.0	



ARC 400 CI	3 Phase	IGBT Module
INPUT VOLTAGE (V)	AC415V±15%	
INPUT POWER CAPACITY (KVA)	18.2	
NO-LOAD VOLTAGE (V)	68	
OUTPUT CURRENT RANGE (A)	30 - 400	
RATE INPUT CURRENT (A)	17	
POWER FACTOR	0.93	
NET WEIGHT (KG)	16	
DIMENSION (INCH)	19.5 x 9.5 x 17.5	
PLATE THICKNESS (MM)	2.0 - 20.0	
ELECTRODE SIZE (MM)	2.0 - 5.0	



ARC 400 BIJ	3 Phase	IGBT Module
INPUT VOLTAGE (V)	AC415V±15%	
INPUT POWER CAPACITY (KVA)	18.2	
NO-LOAD VOLTAGE (V)	68	
OUTPUT CURRENT RANGE (A)	30 - 400	
RATE INPUT CURRENT (A)	17	
POWER FACTOR	0.93	
NET WEIGHT (KG)	18	
DIMENSION (INCH)	19.5 x 9.5 x 17.5	
PLATE THICKNESS (MM)	2.0 - 25.0	
ELECTRODE SIZE (MM)	2.0 - 5.0	



ARC 400 IJ	3 Phase	IGBT Module
INPUT VOLTAGE (V)	AC415V±15%	
INPUT POWER CAPACITY (KVA)	18	
NO-LOAD VOLTAGE (V)	68	
OUTPUT CURRENT RANGE (A)	30 - 400	
RATE INPUT CURRENT (A)	17	
POWER FACTOR	0.93	
NET WEIGHT (KG)	26	
DIMENSION (INCH)	21.5 x 11 x 21.5	
PLATE THICKNESS (MM)	2.0 - 40.0	
ELECTRODE SIZE (MM)	2.0 - 6.0	



ARC 630 IJ	3 Phase	IGBT Module
INPUT VOLTAGE (V)	AC415V±15%	
INPUT POWER CAPACITY (KVA)	36	
NO-LOAD VOLTAGE (V)	85	
OUTPUT CURRENT RANGE (A)	50 - 630	
RATE INPUT CURRENT (A)	53.1	
POWER FACTOR	0.93	
NET WEIGHT (KG)	44	
DIMENSION (INCH)	25.5 x 12 x 25	
PLATE THICKNESS (MM)	2.0 - 60.0	
ELECTRODE SIZE (MM)	2.0 - 6.3	



MZ 1250 (SAW)	3 Phase	IGBT Module
INPUT VOLTAGE (V)	AC415V±15%	
NO-LOAD VOLTAGE (V)	76	
OUTPUT CURRENT RANGE (A)	112 - 1250	
RATE INPUT CURRENT (A)	89	
NO-LOAD LOSS (W)	300	
POWER FACTOR	0.93	
NET WEIGHT (KG)	85	
DIMENSION (INCH)	30 x 15 x 30.5	
PLATE THICKNESS (MM)	0.8 - 40.0	
SAW WIRE SIZE (MM)	3.2 - 6.0	



TIG 200 M	1 Phase	MOSFET
INPUT VOLTAGE (V)	AC230V±15%	
INPUT POWER CAPACITY (KVA)	6	
NO-LOAD VOLTAGE (V)	56	
OUTPUT CURRENT RANGE (A)	10 - 200	
RATE INPUT CURRENT (A)	28	
ARC IGNITION	HF	
POWER FACTOR	0.73	
NET WEIGHT (KG)	15	
DIMENSION (INCH)	20 x 8 x 18	
PLATE THICKNESS ALUM(MM)	-	
PLATE THICKNESS STEEL(MM)	0.3 - 4.0	



TIG / ARC 200	1 Phase	MOSFET
INPUT VOLTAGE (V)	AC230V±15%	
INPUT POWER CAPACITY (KVA)	6/6	
NO-LOAD VOLTAGE (V)	56	
OUTPUT CURRENT RANGE (A)	7 - 200	
RATE INPUT CURRENT (A)	28/43	
ARC IGNITION	HF	
POWER FACTOR	0.73	
NET WEIGHT (KG)	9	
DIMENSION (INCH)	15.5 x 6 x 12	
PLATE THICKNESS (MM)	0.3-5.0 / 1.0-6.0	
ELECTRODE SIZE (MM)	2.0 - 3.2	



TIG / ARC 300	1 Phase	MOSFET
INPUT VOLTAGE (V)	AC230V±15%	
INPUT POWER CAPACITY (KVA)	6.5/9.4	
NO-LOAD VOLTAGE (V)	60	
OUTPUT CURRENT RANGE (A)	7 - 300	
RATE INPUT CURRENT (A)	9.6/14.4	
ARC IGNITION	HF	
POWER FACTOR	0.93	
NET WEIGHT (KG)	19	
DIMENSION (INCH)	20 x 8 x 15	
PLATE THICKNESS (MM)	0.3-8.0 / 2.0-10.0	
ELECTRODE SIZE (MM)	2.0 - 4.0	



TIG / ARC 300	3 Phase	MOSFET
INPUT VOLTAGE (V)	AC415V±15%	
INPUT POWER CAPACITY (KVA)	6.5/9.4	
NO-LOAD VOLTAGE (V)	60	
OUTPUT CURRENT RANGE (A)	7 - 300	
RATE INPUT CURRENT (A)	9.6/14.4	
ARC IGNITION	HF	
POWER FACTOR	0.93	
NET WEIGHT (KG)	19	
DIMENSION (INCH)	20 x 8 x 15	
PLATE THICKNESS (MM)	0.3-8.0 / 2.0-10.0	
ELECTRODE SIZE (MM)	2.0 - 4.0	



TIG / ARC 400 Sumo	3 Phase	IGBT
INPUT VOLTAGE (V)	AC415V±15%	
INPUT POWER CAPACITY (KVA)	13.1/18.2	
NO-LOAD VOLTAGE (V)	65	
OUTPUT CURRENT RANGE (A)	7 - 400	
RATE INPUT CURRENT (A)	20/27.7	
ARC IGNITION	HF	
POWER FACTOR	0.93	
NET WEIGHT (KG)	24	
DIMENSION (INCH)	20.5 x 10.5 x 21.5	
PLATE THICKNESS (MM)	0.5-12.0 / 2.0-20.0	
ELECTRODE SIZE (MM)	2.0 - 5.0	



TIG / ARC 400 IJ	3 Phase	IGBT Module
INPUT VOLTAGE (V)	AC415V±15%	
INPUT POWER CAPACITY (KVA)	13/18	
NO-LOAD VOLTAGE (V)	68	
OUTPUT CURRENT RANGE (A)	7 - 400	
RATE INPUT CURRENT (A)	13.1/18.2	
ARC IGNITION	HF	
POWER FACTOR	0.93	
NET WEIGHT (KG)	30	
DIMENSION (INCH)	21.5 x 11 x 21.5	
PLATE THICKNESS (MM)	0.5-12.0 / 2.0-40.0	
ELECTRODE SIZE (MM)	2.0 - 6.0	



TIG 200 P AC/DC	1 Phase	MOSFET
INPUT VOLTAGE (V)	AC230V±15%	
INPUT POWER CAPACITY (KVA)	6	
NO-LOAD VOLTAGE (V)	44	
OUTPUT CURRENT RANGE (A)	5 - 200	
RATE INPUT CURRENT (A)	32.5	
ARC IGNITION	HF	
POWER FACTOR	0.73	
NET WEIGHT (KG)	28.5	
DIMENSION (INCH)	19.5 x 13.5 x 14.5	
PLATE THICKNESS ALUM(MM)	0.8 - 4.0	
PLATE THICKNESS STEEL(MM)	0.3 - 5.0	



TIG 315 BP AC/DC	3 Phase	MOSFET
INPUT VOLTAGE (V)	AC415V±15%	
INPUT POWER CAPACITY (KVA)	8.9	
NO-LOAD VOLTAGE (V)	60	
OUTPUT CURRENT RANGE (A)	5 - 315	
RATE INPUT CURRENT (A)	13.6	
ARC IGNITION	HF	
POWER FACTOR	0.93	
NET WEIGHT (KG)	33	
DIMENSION (INCH)	22.5 x 14.5 x 18	
PLATE THICKNESS ALUM(MM)	0.8 - 12.0	
PLATE THICKNESS STEEL(MM)	0.3 - 12.0	



TIG 500 P AC/DC	3 Phase	IGBT Module
INPUT VOLTAGE (V)	AC415V±15%	
INPUT POWER CAPACITY (KVA)	18	
NO-LOAD VOLTAGE (V)	54	
OUTPUT CURRENT RANGE (A)	10 - 500	
RATE INPUT CURRENT (A)	53	
ARC IGNITION	HF	
POWER FACTOR	0.93	
NET WEIGHT (KG)	60	
DIMENSION (INCH)	27 x 18 x 32	
PLATE THICKNESS ALUM(MM)	0.8 - 30.0	
PLATE THICKNESS STEEL(MM)	0.3 - 30.0	



MIG / ARC 250 FS	1 Phase	MOSFET
INPUT VOLTAGE (V)	AC230V±15%	
INPUT POWER CAPACITY (KVA)	8.5	
OUTPUT VOLTAGE ADJUSTMENT(V)	26.5	
OUTPUT CURRENT RANGE (A)	50 - 250	
WIRE FEEDER SPEED (MTR/MIN)	2.5 - 18	
POWER FACTOR	0.93	
NET WEIGHT (KG)	21	
DIMENSION (INCH)	20 x 8 x 15	
MIG WIRE DIAMETER (MM)	0.6 - 1.0	



MIG / ARC 250 F	3 Phase	MOSFET
INPUT VOLTAGE (V)	AC415V±15%	
INPUT POWER CAPACITY (KVA)	8.5	
OUTPUT VOLTAGE ADJUSTMENT(V)	26.5	
OUTPUT CURRENT RANGE (A)	50 - 250	
WIRE FEEDER SPEED (MTR/MIN)	2.5 - 18	
POWER FACTOR	0.93	
NET WEIGHT (KG)	21	
DIMENSION (INCH)	20 x 8 x 15	
MIG WIRE DIAMETER (MM)	0.6 - 1.0	



MIG / ARC 4000 IJ	3 Phase	IGBT Module
INPUT VOLTAGE (V)	AC415V±15%	
INPUT POWER CAPACITY (KVA)	14	
OUTPUT VOLTAGE ADJUSTMENT(V)	31.5	
OUTPUT CURRENT RANGE (A)	50 - 400	
WIRE FEEDER SPEED (MTR/MIN)	3 - 24	
POWER FACTOR	0.93	
NET WEIGHT (KG)	36	
DIMENSION (INCH)	21.5 x 11 x 21.5	
MIG WIRE DIAMETER (MM)	0.8 - 1.2	



MIG / ARC 630 IJ	3 Phase	IGBT Module
INPUT VOLTAGE (V)	AC415V±15%	
INPUT POWER CAPACITY (KVA)	35	
OUTPUT VOLTAGE ADJUSTMENT(V)	44	
OUTPUT CURRENT RANGE (A)	80 - 630	
WIRE FEEDER SPEED (MTR/MIN)	3 - 24	
POWER FACTOR	0.93	
NET WEIGHT (KG)	50	
DIMENSION (INCH)	25.5 x 12 x 25	
MIG WIRE DIAMETER (MM)	0.8 - 1.6	



CUT 40	1 Phase	MOSFET
INPUT VOLTAGE (V)	AC230V±15%	
INPUT POWER CAPACITY (KVA)	6.6	
NO-LOAD VOLTAGE (V)	253	
OUTPUT CURRENT RANGE (A)	15 - 40	
RATE INPUT CURRENT (A)	30	
POWER FACTOR	0.73	
AIR PRESSURE (KG)	4 - 5	
NET WEIGHT (KG)	9	
DIMENSION (INCH)	15.5 x 6 x 12	
CUTTING THICKNESS (MM)	0.3 - 6.0	



CUT 70	3 Phase	MOSFET
INPUT VOLTAGE (V)	AC415V±15%	
INPUT POWER CAPACITY (KVA)	7.8	
NO-LOAD VOLTAGE (V)	240	
OUTPUT CURRENT RANGE (A)	20 - 70	
RATE INPUT CURRENT (A)	12	
POWER FACTOR	0.93	
AIR PRESSURE (KG)	4 - 5	
NET WEIGHT (KG)	19	
DIMENSION (INCH)	20 x 8 x 15	
CUTTING THICKNESS (MM)	0.3 - 12.0	



CUT 100 IJ	3 Phase	IGBT Module
INPUT VOLTAGE (V)	AC415V±15%	
INPUT POWER CAPACITY (KVA)	15.1	
NO-LOAD VOLTAGE (V)	290	
OUTPUT CURRENT RANGE (A)	20 - 100	
RATE INPUT CURRENT (A)	23.1	
POWER FACTOR	0.93	
AIR PRESSURE (KG)	4 - 5	
NET WEIGHT (KG)	36.5	
DIMENSION (INCH)	21.5 x 11 x 21.5	
CUTTING THICKNESS (MM)	1.0 - 30.0	



CUT 160 IJ	3 Phase	IGBT Module
INPUT VOLTAGE (V)	AC415V±15%	
INPUT POWER CAPACITY (KVA)	29	
NO-LOAD VOLTAGE (V)	320	
OUTPUT CURRENT RANGE (A)	20 - 160	
RATE INPUT CURRENT (A)	44.3	
POWER FACTOR	0.93	
AIR PRESSURE (KG)	4 - 6	
NET WEIGHT (KG)	60	
DIMENSION (INCH)	26.5 x 13 x 20	
CUTTING THICKNESS (MM)	1.0 - 45.0	