



PRODUCT SPECIALITY

DW 200i, DW 315G & DW 400G

1. With the function of auto-compensation against power fluctuation. And the output welding current will be stable.
2. Having the function of auto-protection against over-voltage and over-current.
3. Having powerful arc-force.
4. Reliable quality with small dimension and weight as well as high efficiency.
5. Able to weld basic and acid electrodes.
6. Applicable to low carbon steel, medium carbon steel and alloy steel
7. Saves power bill by 65% as compared to transformer based welding machines.

DW400i, DW500i & DW630i

1. The transformer core is made of high-tech material based on Nanotechnology
2. The tri-proof (water, dust and eroding proof) cooling system raised the reliability and duty-cycle of the key components.
3. Having the fan stand by function.
4. With OCV as high as 70V, able to weld basic and acid electrodes.
5. The duty-cycle is higher than 60% when the temperature of the operation surrounding is around 40. Capable to operate outdoors.
6. The maximum output efficiency is 85%. By using the advanced electro-circuit for power factor compensation, the max power factor could be as high as 0.93.
7. EMC electro-circuit added to reduce the pollution to the electric network.
8. With digital display of the welding current and remote control for option.
9. Saves power bill by 65% as compared to transformer based welding machines.



DIFFARC RANGE - MMAW/ARC WELDING

Parameter/Model	DW200i	DW315G	DW 400G	DW400i	DW500i	DW630i
Input Voltage (V)	1phase, AC 220 ± 15%	AC 415 ± 15%	AC 415 ± 15%	AC 415 ± 15%	AC 415 ± 15%	AC 415 ± 15%
Frequency (Hz)	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Rated Input Current (A)	43.6	19.7	24	27.6	38.4	53.1
No Load Voltage (V)	58	59	68	68	80	72
Output Current Range (A)	30-200	30-315	40-400	40-400	50-500	50-630
Rated Output Voltage (V)	28	32.6	36	36	40	44
Duty Cycle (%)	60	60	60	100*	100*	100*
No- Load Loss (W)	40	80	80	100	150	200
Efficiency (%)	80	85	85	85	85	85
Power Factor	0.73	0.93	0.93	0.93	0.93	0.93
Insulation Grade	H	H	H	H	H	H
Housing Protection Grade	IP23	IP23	IP23	IP23	IP23	IP23
Net Weight (kg)	8	18	20	38	40	54
Dimensions (mm)	375x155x232	565x306x432	515x262x468	565x286x432	650x300x615	670x337x617
Plate thickness (mm)	2.0-6.0	2.0-16.0	2.0-16.0	3.0-16.0	3.0-18.0	3.0-20.0
Welding Rod Diameter (mm)	2.5/3.15	2.5/3.15/4.0/5.0	2.5/3.15/4.0/5.0	4.0/5.0	5.0/6.0	4.0/6.0/8.0
Standard Accessories	O/P cable- 3meters Holder, Earthing clamp, End connectors 3Pin plug	O/P cable - 3meters, Holder, Earthing clamp End Male connectors.	O/P cable- 3meters, Holder, Earthing clamp, End Male connectors.	O/P cable 3meters, Holder, Earthing clamp, End Male connectors.	O/P cable- 3meters, Holder, Earthing clamp, Lugs	O/P cable- 3meters, Holder, Earthing clamp, Lugs

* 100% Duty cycle when ambient temperatures are below 40deg C.

DIFFUSION ENGINEERS LIMITED

Regd. Office : T-5 & T-6, M.I.D.C., Hingna Industrial Area, Nagpur - 440016. Maharashtra INDIA

[t] 091-7104-232084,234727 [f] 091-7104-232085. [e] info@diffusionengineers.com

Works I : T-5 & T-6, M.I.D.C., Hingna Industrial Area, Nagpur 440 016. [t] 091-7104-232084, 234727

Work II : N-78 & N-79, M.I.D.C., Hingna Industrial Area, Nagpur 440 016. [t] 091-7104-236036

Work III : T-12, M.I.D.C., Hingna Industrial Area, Nagpur 440 016. [t] 091-7104-232984

[w] www.diffusionengineers.com

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