Panasonic MIG Welding Power Source

FULL DIGITAL

GL3

FUll Digital Pulse MIG/MAG Welding Machine

CO_2/ MAG | Pulse MAG | Pulse MIG | MIG

High quality welding performance for stainless steel and carbon steel

High grade welding by GL Pulse control

■Newly developed "GL pulse control" incorporates the advantages of three pulse control methods in Panasonic's reputable original machine and fire-new full digital control.

■By means of CPU's high-speed monitoring on output, most optimized arc marched with welding condition can be generated. While the wobble is compensated, the undercut is restrained. The spatter is reduced as a result.

Mild steel Pulse MAG
Condition:200A,25.2V
Speed:50cm/min
Wire:Solid,1.2mm
Workpiece:
Mild steel,4.5mm
Shielded gas:
Ar 80%+CO2
Joint form:fillet

Stainless steel Pulse MIG
Condition:160A,20.2V
Speed:50cm/min
Wire:SUS308,1.2mm
Workpiece:
SUS304,3.0mm
Shielded gas:
Ar 98%+O2
Joint from:fillet

Practical welding management function

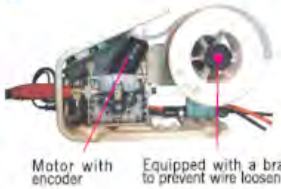
■As many as nine sets of optimal parameters can be stored and recalled instantly.

■The pre-set parameters are lockable as read-only data.

Equipped with wire feeding motor attached with high accurate encoder

■The motor attached with encoder ensures accurate feeding of welding wire, realizing uniformed welding bead.

■The stable feeding is obtainable even when such external factors as power supply voltage and wire feeding resistance change.



■Thanks to stable wire feeding, same welding condition is repeatable at various surroundings.

■2-drive, 2-slave feeding method adopts 2-point feeding with strong feeding force. The stable feeding is realized at the conditions, such as stainless steel welding wire, flux-cored welding wire and the torch with extension cable.

Network access enables remote monitoring and management

■By the connecting the extension interface in welding machine to extra LAN adaptor (Option) and networking software (Option), the monitoring in network is achievable.

Specifications

Model		YD-350GL	YD-500GL
Power contyol method	-	IGBT inverter type	
Rated frequency	Hz	50/60Hz (Common)	
Rated input	kVA/kW	14.5/14	23.3 / 22.4
Power factor(Rated conditions)		0.97	0.96
Output characteristic	-	CV	
Rated output current	A	350(DC)	500(DC)
Rated output voltage	V	31.5(DC)	39(DC)
Rated duty cycle	%	60	100
Rated output no-load voltage	V	73(DC)	67(DC)
Output current adjustable range	A	30-430	60-550
Output voltage adjustable range	V	16-35.5	17-41.5
Method of welding	-	Individual / United	
Enclosure protection class	-	IP21S	
Insulation class	-	H	F
Cooling mode	-	Air coolled	
Applicable welding wire type		Solid/Fcw	
Applicable wire size(diameter)	mm	0.8/0.9/1.0/1.2	1.2/1.4/1.6
Applicable wire material (Note)	-	Carbon steel(MS) Carbon steel-Flux-cored(MF_FCW) Stainless steel(SUS) Stainless steel-Flux-cored(SUS_FCW)	
Welding method		CO_2/MAG/MIG/Pulse MIG/Pulse MAG	
Shielding gas	-	CO_2 welding CO_2:100% / MAG welding Ar:80%,CO_2:20% / MIG welding Ar:98%, O_2:2% Pulse MIG welding Ar:98%, O_2:2% / Pulse MAG Welding Ar:80%,CO_2:20%	
Pulse characteristic		Digital control:*-15°(Min.)~*0°(Max.)~*15°(Standard)	
Wave form control method	-	Digital control:*-7°(Min.)~*0°(Standard)~*7°(Max.)	
Memory	-	9 ch, reproducible storages	
Sequence	-	welding / welding - Crater / Initial - welding - Crater	
Gas check time	s	60 Max Gas purge time)	
Pre-flow time	s	0-5.0 continuous(Increment of 0.1)	
Post-flow time	s	0-5.0 continuous(Increment of 0.1)	
spot welding time	s	0.3-10.0 continuous(Increment of 0.1)	
Dimension(WxDxH)	mm	380×550×645	380×550×815
Mass	kg	50	60

*Note:The ouput ranges are tested on the conditions of resistance load according to GB15579.1-2004.

The convenient instant output connectors

Specifications

350GL3	Configuration(Chinese)
Air cooling	Power：YD-350GL3HGE Torch：YT-35CS3VTA Wire feeder：YW-35DG1HAM Gas regulater：YX-25CD1HAM
500GL3	Configuration(Chinese)
Air cooling	Power：YD-500GL3HGE Torch：YT-50CS3VTA Wire feede：YW-50DG1HAM Gas regulater：YX-25CD1HAM
Water cooling	Power：YD-500GL3HGE Torch：YT-50MFW1HAF Wire feede：YW-50DG1HAK Gas regulater：YX-25CD1HAM