

DIESEL ENGINE-DRIVEN DC WELDER/AC GENERATOR

DCW-ESW CC/CV

Power Source Technology for the future.

USR®

All in one Processes:

Stick (SMAW)-CC

MIG (GMAW)-CV

DC Lift TIG (GTAW) -CC

Air Carbon ARC (CAC-A)

Submerged ARC (SAW)



*One Unit for
All Your Welding Needs!*

All-in-one

450A DC Arc Welding Power Source

DCW-480ESW can perform high-quality welding on

pipelines and other welding methods.

welding: Stick, Tig, Mig, Flux-cored, Gouging, etc.

High-Capacity High-Performance Generator

The unit can also be used as a 15kVA/50Hz high-capacity generator. With a voltage regulation of within $\pm 1.5\%$. High-quality AC power can be used while welding is being performed.

Low Fuel Consumption and Long Life

The unit incorporate high-output diesel engine featuring low fuel consumption. Operation at low speed is easy on the engine, facilitating especially long life.

Special Design Facilitates Use in Virtually Any Location

The unit has been designed to operate in virtually all locations, from very hot to cold climates. It is ideal for high-quality welding and as a dependable source of power.



HIGH PERFORMANCE/Multi-APPLICATION

DIESEL ENGINE-DRIVEN
DC WELDER/AC GENERATOR

Easy-to-use controls and operation integrated in one location.



SUPERIOR WELDING EFFECT

WELDING EFFECST:



Equipment application site



Configurable automatic pipeline welding



DIESEL ENGINE-DRIVEN DC WELDER/AC GENERATOR

DCW-305ESW CC/CV

SPECIFICATION

SPEC./MODEL		DCW-305ESW	
Frequency		Hz	
50			
DC WELDING OUTPUT	Rated output		kW
	CC:7.5/CV:7.2		
	Rated current		A
	300		
	Rated voltage		V
	CC:38.0/CV:36.5		
	Single	Current Range	A
		CC:60~300	
AC POWER OUTPUT	Three Phase	Voltage Range	V
		CV:14~29	
	Rated Speed		min ⁻¹
	3000		
	Duty Cycle		%
	60		
	Three Phase	Rated output	kVA
		7.5	
		Rated voltage	V
		3 phase 415V	1 phase 240V
		Rated current	A
		15	8.3
		No. of Phase	
		3-Phase 4wire	
		Power Factor	
		0.8 (Lagging)	
		Excitation	
		Brushless type (with AVR)	
		No. of poles	
		2	
		Insulation	
		Class F	

ENGINE	Maker/Model		KUBOTA D722	
	Type		Water-cooled diesel engine	
	Number of cylinders		3	
	Bore×Stroke		mm	67.0X68.0
	Total displacement		L	0.719
	Rated output		kW/min ⁻¹	11.3/3000
	Battery		50D26R	
	Fuel		DIESEL FUEL ASTM NO.2 or eq.	
	Fuel tank capacity		L	45
	Lubricating oil capacity		L	4.2 (Oil pan 4.0L+Oil filter 0.2L)
	Cooling water capacity		L	4.5 (Reserve tank included)
SET	Length		mm	1350
	Width		mm	650
	Height		mm	880
	Dry weight		kg	326
	Total weight		kg	364

DCW-400ESW CC/CV

SPECIFICATION

SPEC./MODEL		DCW-400ESW	
Frequency		Hz	
50			
DC WELDING OUTPUT	Rated output		kW
	CC:10.5/CV:10.0		
	Rated current		A
	400		
	Rated voltage		V
	CC:38.0/CV:32.5		
	Single	Current Range	A
		CC:60~400	
AC POWER OUTPUT	Three Phase	Voltage Range	V
		CV:14~32.5	
	Rated Speed		min ⁻¹
	3000		
	Duty Cycle		%
	60		
	Three Phase	Rated output	kVA
		10.5	
		Rated voltage	V
		3 phase 415V	1 phase 240V
		Rated current	A
		24	12.5
		No. of Phase	
		3-Phase 4wire	
		Power Factor	
		0.8 (Lagging)	
		Excitation	
		Brushless type (with AVR)	
		No. of poles	
		2	
		Insulation	
		Class F	

ENGINE	Maker/Model		KUBOTA D902	
	Type		Water-cooled diesel engine	
	Number of cylinders		3	
	Bore×Stroke		mm	72.0X73.6
	Total displacement		L	0.898
	Rated output		kW/min ⁻¹	15.5/3000
	Battery		50D26R	
	Fuel		DIESEL FUEL ASTM NO.2 or eq.	
	Fuel tank capacity		L	40
	Lubricating oil capacity		L	4.2 (Oil pan 4.0L+Oil filter 0.2L)
	Cooling water capacity		L	4.5 (Reserve tank included)
SET	Length		mm	1400
	Width		mm	650
	Height		mm	880
	Dry weight		kg	380
	Total weight		kg	425

DIESEL ENGINE-DRIVEN DC WELDER/AC GENERATOR

DCW-480ESW CC/CV

SPECIFICATION

SPEC./MODEL			DCW-480ESW						
Frequency Hz			50						
DC WELDING OUTPUT	Rated output kW		CC:17.1/CV:16.4						
	Rated current A		450						
	Rated voltage V		CC:38.0/CV:36.5						
	Single	Current Range A	CC:60~480						
		Voltage Range V	CV:14~37						
	Dual	Current Range A	CC:30~240						
		Voltage Range V	CV:14~37						
	Rated Speed min ⁻¹		3000						
Duty Cycle %		60							
AC POWER OUTPUT	Three Phase	Rated output kVA	15						
		Rated voltage V	200	220	380	400	415	440	
		Rated current A	43.3	39.4	22.8	21.7	20.9	19.7	
		No. of Phase	3-Phase 4wire						
		Power Factor	0.8 (Lagging)						
		Excitation	Brushless type (with AVR)						
		No. of poles	2						
		Insulation	Class F						

ENGINE	Maker/Model		KUBOTA/V1505
	Type		Water-cooled diesel engine
	Number of cylinders		4
	Bore×Stroke mm		78X78.4
	Total displacement L		1.498
	Rated output kW/min ⁻¹		25.2/3000
	Battery		80D26R
	Fuel		DIESEL FUEL ASTM NO.2 or eq.
	Fuel tank capacity L		45
	Lubricating oil capacity L		6.0 （Oil pan 5.8L+Oil filter 0.2L）
	Cooling water capacity L		4.85 （Reserve tank included）
SET	Length mm		1540
	Width mm		720
	Height mm		880
	Dry weight kg		500
	Total weight kg		558

DCW-600ESW CC/CV

SPECIFICATION

SPEC./MODEL			DCW-600ESW					
Frequency Hz			50					
DC WELDING OUTPUT	Rated output kW		CC:17.1/CV:16.4					
	Rated current A		600					
	Rated voltage V		CC:38.0/CV:36.5					
	Single	Current Range A	CC:60~600					
		Voltage Range V	CV:14~37					
	Dual	Current Range A	CC:30~300					
		Voltage Range V	CV:14~37					
	Rated Speed min ⁻¹		1500					
Duty Cycle %		60						
AC POWER OUTPUT	Three Phase	Rated output kVA	24					
		Rated voltage V	200	300	400	450	560	600
		Rated current A	43.3	39.4	22.8	21.7	20.9	19.7
		No. of Phase	3-Phase 4wire					
		Power Factor	0.8 (Lagging)					
		Excitation	Brushless type (with AVR)					
		No. of poles	2					
		Insulation	Class F					

ENGINE	Maker/Model		KUBOTA 2403
	Type		Water-cooled diesel engine
	Number of cylinders		4
	Bore×Stroke mm		87.0X102.4
	Total displacement L		2.434
	Rated output kW/min ⁻¹		33.6/1500
	Battery		120D26R
	Fuel		DIESEL FUEL ASTM NO.2 or eq.
	Fuel tank capacity L		60
	Lubricating oil capacity L		9.5 (Oil pan 5.8L+Oil filter 0.2L)
	Cooling water capacity L		8.85 (Reserve tank included)
	SET	Length mm	
Width mm		720	
Height mm		885	
Dry weight kg		630	
Total weight kg		758	



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DIESEL ENGINE-DRIVEN DC WELDER/AC GENERATOR

DCW-800ESW CC/CV

SPECIFICATION

SPEC./MODEL		DCW-800ESW						
Frequency		Hz	50					
DC WELDING OUTPUT	Rated output		kW	CC:17.1/CV:16.4				
	Rated current		A	800				
	Rated voltage		V	CC:38.0/CV:36.5				
	Single	Current Range	A	CC:60~800				
		Voltage Range	V	CV:14~37				
	Dual	Current Range	A	CC:30~400				
		Voltage Range	V	CV:14~37				
	Rated Speed		min ⁻¹	1500				
	Duty Cycle		%	60				
AC POWER OUTPUT	Three Phase	Rated output	kVA	15				
		Rated voltage	V	200	220	380	400	415 440
		Rated current	A	43.3	39.4	22.8	21.7	20.9 19.7
		No. of Phase		3-Phase 4wire				
		Power Factor		0.8 (Lagging)				
		Excitation		Brushless type (with AVR)				
		No. of poles		2				
		Insulation		Class F				

ENGINE	Maker/Model	Kubota V3300	
	Type	Water-cooled diesel engine	
	Number of cylinders	4	
	Bore×Stroke	mm	78X78.4
	Total displacement	L	1.498
	Rated output	kW/min ⁻¹	25.2/3000
	Battery	80D26R	
	Fuel	DIESEL FUEL ASTM NO.2 or eq.	
	Fuel tank capacity	L	65
	Lubricating oil capacity	L	6.0 (Oil pan 5.8L+Oil filter 0.2L)
	Cooling water capacity	L	4.85 (Reserve tank included)
SET	Length	mm	1880
	Width	mm	920
	Height	mm	1080
	Dry weight	kg	920
	Total weight	kg	1108

DCW-1200ESW CC/CV

SPECIFICATION

SPEC./MODEL		DCW-12000ESW						
Frequency		Hz	50					
DC WELDING OUTPUT	Rated output		kW	CC:17.1/CV:16.4				
	Rated current		A	1200				
	Rated voltage		V	CC:38.0/CV:36.5				
	Single	Current Range	A	CC:60~1200				
		Voltage Range	V	CV:14~37				
	Dual	Current Range	A	CC:30~600				
		Voltage Range	V	CV:14~37				
	Rated Speed		min ⁻¹	1500				
	Duty Cycle		%	60				
AC POWER OUTPUT	Three Phase	Rated output	kVA	24				
		Rated voltage	V	200	300	400	450	560 600
		Rated current	A	43.3	39.4	22.8	21.7	20.9 19.7
		No. of Phase		3-Phase 4wire				
		Power Factor		0.8 (Lagging)				
		Excitation		Brushless type (with AVR)				
		No. of poles		2				
		Insulation		Class F				

ENGINE	Maker/Model	KUBOTA V3800T	
	Type	Water-cooled diesel engine	
	Number of cylinders	4	
	Bore×Stroke	mm	87.0X102.4
	Total displacement	L	2.434
	Rated output	kW/min ⁻¹	33.6/1500
	Battery	120D26R	
	Fuel	DIESEL FUEL ASTM NO.2 or eq.	
	Fuel tank capacity	L	60
	Lubricating oil capacity	L	9.5 (Oil pan 5.8L+Oil filter 0.2L)
	Cooling water capacity	L	8.85 (Reserve tank included)
SET	Length	mm	1880
	Width	mm	920
	Height	mm	1080
	Dry weight	kg	980
	Total weight	kg	1185



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