

Denyo

DIESEL ENGINE-DRIVEN DC WELDER/AC GENERATOR

DCW Series CC/CV

HIGH PERFORMANCE & Multi-APPLICATION



DCW-450S

All-in-one

**Stik, Tig, Mig, Flux-cored, Gouging—
One Unit for All Your Welding on demands!**



DCW-400ES

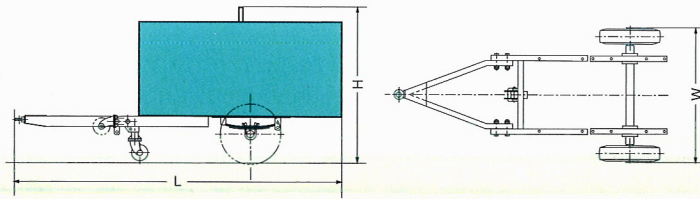
WELDERS

on integration in one location.

TRAILER (OPTIONS)

	2-Wheel Trailer		4-Wheel Trailer
	DCW-450S	DCW-400ES	DCW-450S
Length (mm)	3050	2340	3050
Width (mm)	1300	1220	1400
Height (mm)	1435	1340	1415
Dry weight (kg)	770	615	870
Tire size	5.00 12-8PR	145R-10 6PR	5.00 12-8PR

Dimensions and weight include welding set



DCW-400ES

Soundproof Type DCW-400ES

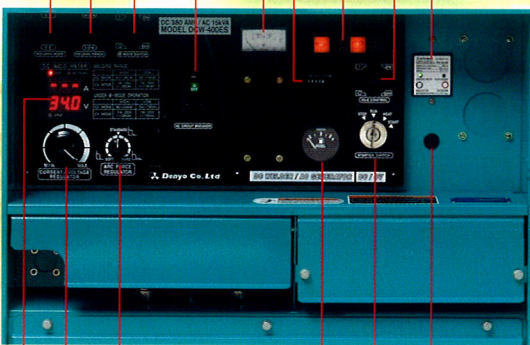
E-mode Function Reduces Fuel Consumption and Noise Level

With e-mode operation (idling speed), the unit controls welding current up to 240A, reducing fuel consumption noise level.



DCW-400ES

6 7 8 1 2 10 11 13 Earth Leakage Relay (option)



4 3 5 12 9 14 (in Bonnet)

CONTROL PANEL

- AC Circuit Breaker
- AC Voltmeter
- Current/Voltage Regulator
- Digital Panel
DC Voltage / DC Ammeter / VRD Lamp
- Arc Force Regulator
- Welding Mode Selector Switch (CC/CV)
- Welding Range Selector Switch (High/Low)
- e-mode Switch
- Starter Switch
- Hour Meter
- Warning Lamp Unit
Oil Press / Water Temp / Charging / Preheat
- Fuel Meter
- Idle Control Switch
- Voltage Regulator

OPTIONS

OPTION 1

- Oil Pressure Gauge
- Water Temperature Gauge

OPTION 2

- Remote Control Receptacle
- Remote Control Switch

OPTION 3

- AC Ammeter
- Frequency Meter

OPTION 4

- Earth Leakage Relay
- Ground Terminal (For ELR)

SPECIFICATION

Item		Model	DCW-400ES	e-mode
WELDER	CC MODE	Rated output	11.0kW/11.9kW	7.10kW
		Rated current, Voltage, Duty	330A/350A, 33.2V/34.0V, 60%	240A, 29.6V, 100%
		Current range	High range 60~380A/400A Low range 30~190A/200A	60~240A 30~190A/200A
		Current selector	2 steps	2 steps
		Current at 100% duty cycle	High range 250A/270A Low range 125A/135A	240A/240A 120A/120A
	CV MODE	Rated speed	3000min ⁻¹ /3600min ⁻¹	2200min ⁻¹ /2200min ⁻¹
		Rated output	10.1kW/11.0kW	4.80kW
		Rated current, Voltage, Duty	330A/350A, 30.5V/31.5V, 60%	240A, 20.0V, 100%
		Welding voltage range	High range 14~34V/36V Low range 14~34V/36V	14~20V 14~30V
		Current at 100% duty cycle	High range 250A/270A Low range 125A/135A	240A/240A 120A/120A
GENERATOR	Rated speed	3000min ⁻¹ /3600min ⁻¹	2200min ⁻¹ /2200min ⁻¹	
	Number of phases	3-phases, 4-wire		
	Rated output	15kVA at 50Hz 15kVA at 60Hz		
	Rated voltage	380V (or 400V or 415V)		
	Frequency	50Hz/60Hz		
ENGINE	Model	kubota V1305		
	Type	4-cycle, water-cooled diesel engine		
	Rated output	21.2kW at 3000min ⁻¹		
	Rated speed	23.5kW at 3600min ⁻¹ 3000min ⁻¹ for 50Hz 3600min ⁻¹ for 60Hz		
	Displacement	1.335L		
	Fuel	ASTM No. 2 diesel fuel or equivalent		
	Fuel consumption*1	3.52L/h / 4.03L/h		
UNIT	Buttery×Quantity	12V-65Ah×1 (80D26R)	3.1L/h	
	Dimensions (L×W×H)	1540×720×885mm		
Dry weight		495kg		
SOUND LEVEL		67dB (A) / 70dB (A) *2	59dB (A) *3	

*1 Rated welding load at rated duty cycle. *2 The average rated load sound is limited within 67dB (A) / 70dB (A) at a distance of 7m. *3 The average e-mode sound is limited within 59dB (A) at a distance of 7m.

Easy-to-use controls and operation

Features

The unit can perform high-quality welding on pipelines and other welding methods. (Types of welding: Stick, Tig, Mig, Flux-cored, Gouging, etc.)

High-Capacity High-Performance Generator

The unit can also be used as a high-capacity generator. With a voltage regulation of within $\pm 1.0\%$. High-quality AC power can be used while welding is being performed.

Special Design Facilitates Use in Virtually Any Location

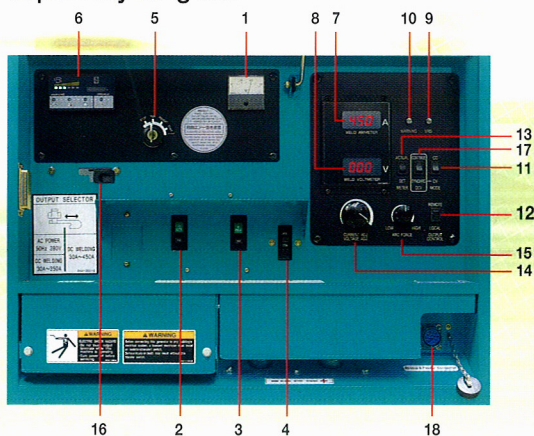
The unit has been designed to operate in virtually all locations, from very hot to cold climates. It is ideal for high-quality welding and as a dependable source of power.

Specific Features

Bonnet Type DCW-450S

Low Fuel Consumption and Long Life

The unit incorporates a low rpm ($1,500/1,800 \text{ min}^{-1}$) high-output diesel engine featuring low fuel consumption. Operation at low speed is easy on the engine, facilitating especially long life.



CONTROL PANEL

- 1.AC Voltmeter
- 2.Circuit Breaker (3-phase output)
- 3.Circuit Breaker (Welding output)
- 4.Circuit Breaker (Remote output)
- 5.Starter Switch
- 6.Engine Monitor
Warning Lamp Unit/Hour Meter/Fuel Meter
- 7.Digital Amps Output Meter
- 8.Digital Volt Output Meter
- 9.VRD Lamp
- 10.Warning Lamp (For Overload)
- 11.Welding Mode Selector (CC/CV)
- 12.Output Control Selector (Remote/Local)
- 13.Meter Selector (Actual/Set)
- 14.Welding Regulator (CC/CV)
- 15.Arc Force Regulator
- 16.Output Range Selector
- 17.OCV Selector (Continue/Synchro)
- 18.Remote Socket



OPTIONS

OPTION 1

Frequency Meter
AC Ammeter

OPTION 2

Earth Leakage Relay
Ground Terminal (For ELR)

OPTION 3

Oil Pressure Gauge
Water Temperature Gauge

OPTION 4

Remote Control Unit



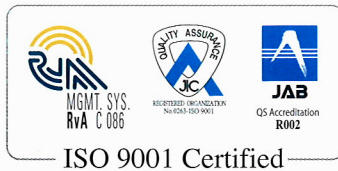
DCW-450S

SPECIFICATION

Item	Model	DCW-450S	
WELDER	CC MODE	Rated output	14.4kW
		Rated current, Voltage, Duty	400A, 36V, 60%
		Current range	30~350A/450A
		Current selector	2 steps
		Current at 100% duty cycle	310A
	Rated speed	1500min ⁻¹ /1800min ⁻¹	
	CV MODE	Rated output	13.6kW
		Rated current, Voltage, Duty	400A, 34V, 60%
		Welding voltage range	14~31.5V/14~36V
		Current at 100% duty cycle	310A
Rated speed		1500min ⁻¹ /1800min ⁻¹	
Aux. power for feeder	115V		
GENERATOR	Number of phases	3-phases, 4-wire	
	Rated output	20kVA at 50Hz 25kVA at 60Hz	
	Rated voltage	380V (or 400V or 415V)	
	Frequency	50Hz/60Hz	
ENGINE	Model	kubota V2203	
	Type	4-cycle, water-cooled diesel engine	
	Rated output	18.4kW at 1500min ⁻¹ 23.7kW at 1800min ⁻¹	
	Rated speed	1500min ⁻¹ for 50Hz 1800min ⁻¹ for 60Hz	
	Displacement	2.197L	
	Fuel	ASTM No. 2 diesel fuel or equivalent	
	Fuel consumption*1	4.27L/h	
Buttery×Quantity	12V-65Ah×1 (80D26R)		
UNIT	Dimensions (L×W×H)	1900×720×990mm	
	Dry weight	670kg	
SOUND LEVEL		71dB(A) *2	

*1 Rated welding load at rated duty cycle.

*2 The average rated load sound is limited within 71dB(A) at a distance of 7m.



Direct inquiries to the nearest Denyo distributor or to Denyo co.,Ltd.

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