

208-600 Volt

VD350-01 60 Hz / 1800 RPM

350 kWe / 330 kWe Standby / Prime

### Ratings

	208V	240V	480 <b>V</b>	600 <b>V</b>
Phase	3	3	3	3
PF	0.8	0.8	0.8	0.8
Hz	60	60	60	60
Generator Model	433CSL6216	433CSL6216	433CSL6216	433PSL6248
Connection	12 LEAD WYE	12 LEAD DELTA	12 LEAD WYE	4 LEAD WYE
Standby				
kWe	350	350	350	350
AMPS	1216	1054	527	421
Temp Rise	130°C / 27°C	130°C / 27°C	130°C / 27°C	130°C / 27°C
Prime [Only Available For Mobile Applications]				
kWe	330	330	330	330
AMPS	1146	993	497	397
Temp Rise	105°C / 40°C	105°C / 40°C	105°C / 40°C	105°C / 40°C

## Standard Equipment

#### Engine

- ► Radiator Cooled Unit Mounted (55°C)
- ▶ Blower Fan & Fan Drive
- ▶ Starter & Alternator
- ▶ Oil Pump & Filter
- ▶ Oil Drain Extension w/Valve
- ▶ Governor Electronic Isochronous
- ▶ 24V Battery System & Cables
- ► Air Cleaner (Dry Single Stage)
- ► Flexible Fuel Connector
- ▶ EPA Certified Tier 3

### **Listing Certifications**

- ▶ UL 2200 Listed
- ▶ cUL Listed
- ► CSA Certified
- ▶ Seismic Certified to IBC 2012

#### Generator

- ▶ Brushless Single Bearing
- ► Automatic Voltage Regulator
- ▶ ± 1% Voltage Regulation
- ▶ 4 Pole, Rotating Field
- ▶ 130°C Standby Temperature Rise
- ▶ 105°C Prime Temperature Rise
- ▶ 100% of Rated Load One Step
- ▶ 5% Maximum Harmonic Content
- NEMA MG 1, IEEE and ANSI Standards Compliance for Temperature Rise

#### Additional

- ► Microprocessor Based Digital Control
- ▶ Interface Connection Box
- ▶ Control Panel Mounted in NEMA 12 Enclosure
- ▶ Base Formed Steel
- ▶ Main Line Circuit Breaker Mounted & Wired
- ► Critical Grade Silencer Mounted
- ► Battery Charger 24V 5 Amp
- ► Jacket Water Heater -20°F 4000W 240V w/Isolation Valves
- ▶ Vibration Isolation Mounts
- ► Radiator Duct Flange (OPU Only)
- ▶ Single Source Supplier
- ▶ 2YR / 2000HR Standby Warranty
- ▶ 1YR / 1500HR Prime Warranty
- ▶ Standard Colors White / Tan / Gray

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### 350 kWe / 330 kWe



## Application Data

Engine			
Manufacturer:	Volvo Penta	Displacement - Cu. In. (lit):	780 (12.8)
Model:	TAD1352GE	Bore - in. (cm) x Stroke - in. (cm):	5.20 (13.1) x 6.20 (15.8)
Type:	4-Cycle	Compression Ratio:	18.1:1
Aspiration:	Turbo Charged, CAC	Rated RPM:	1800
Cylinder Arrangement:	6 Cylinder Inline	Max HP Stby (kWm):	537 (395)

Exhaust System	Standby	Prime
Gas Temp. (Stack): °F (°C)	995 (535)	878 (470)
Gas Volume at Stack Temp: CFM (m³/min)	2,391 (67.7)	2,214 (62.7)
Maximum Allowable Exhaust Restriction: in. H <sub>2</sub> O (kPa)	40.0 (10.00)	32.0 (8.00)
Cooling System		
Ambient Capacity of Radiator: °F (°C)	131 (55.0)	131 (55.0)
Maximum Allowable Static Pressure on Rad. Exhaust: in. H <sub>2</sub> O (kPa)	0.50 (0.12)	0.50 (0.12)
Water Pump Flow Rate: GPM (lit/min)	87.0 (329)	87.0 (329)
Heat Rejection to Coolant: BTUM (kW)	10,066 (177)	9,327 (164)
Heat Rejection to CAC: BTUM (kW)	4,948 (87.0)	4,720 (83.0)
Heat Radiated to Ambient: BTUM (kW)	2,988 (52.3)	2,818 (49.3)
Air Requirements		
Aspirating: CFM (m³/min)	918 (26.0)	918 (26.0)
Air Flow Required for Rad. Cooled Unit: CFM (m³/min)	16,325 (462)	16,325 (462)
Air Flow Required for Heat Exchanger/Rem. Rad. CFM (m³/min)	Consult Factory For Remote Cooled Applications	
Fuel Consumption		
At 100% of Power Rating: gal/hr (lit/hr)	25.5 (96.5)	23.1 (87.4)
At 75% of Power Rating: gal/hr (lit/hr)	19.3 (73.1)	17.7 (67.0)
At 50% of Power Rating: gal/hr (lit/hr)	13.2 (50.0)	12.3 (46.6)
Fluids Capacity		
Total Oil System: gal (lit)	9.00 (36.0)	9.00 (36.0)
Engine Jacket Water Capacity: gal (lit)	5.28 (20.0)	5.28 (20.0)
System Coolant Capacity: gal (lit)	11.7 (44.0)	11.7 (44.0)

#### Deration Factors

Rated Power is available up to 3,280 Ft (1,000 m) at ambient temperatures to  $122^{\circ}F$  ( $50^{\circ}C$ ) standby and prime. Consult factory for site conditions above these parameters.

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### 350 kWe / 330 kWe



### DGC-2020 Control Panel

### **Standard Features**

- ▶ Digital Metering
- ▶ Engine Parameters
- ▶ Generator Protection Functions
- ▶ Engine Protection
- ▶ CAN Bus ECU Communications
- ▶ Windows-Based Software
- ▶ Multilingual Capability
- ▶ Remote Communications to RDP-110 Remote Annunciator
- ▶ 16 Programmable Contact Inputs
- ▶ Up to 15 Contact Outputs (7 standard)
- ▶ UL Recognized, CSA Certified, CE Approved
- ▶ Event Recording

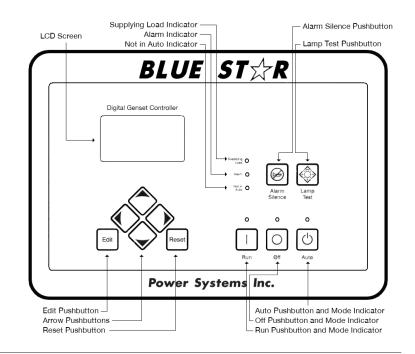
**OPU** 

Level 1

Level 2

Level 3

- ▶ IP 54 Front Panel Rating with Integrated Gasket
- ▶ NFPA 110 Level 1 Compatible



## Weights / Dimensions / Sound Data

	LxWxH	Weight lbs	
OPU	120 x 66 x 80 in	7,775	
Level 1	156 x 66 x 94 in	9,025	
Level 2	156 x 66 x 94 in	9,100	
Level 3	196 x 66 x 94 in	9,400	

Please allow 6-12 inches for height of exhaust stack

No Load 87 dBA

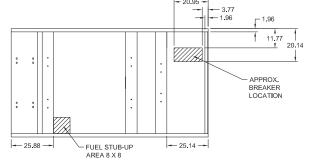
83 dBA

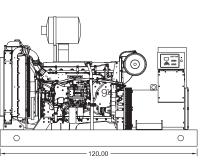
78 dBA

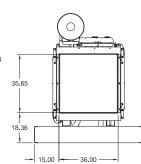
70 dBA

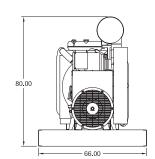
naust	stack.	
ull	Load	
89	dBA	
85	dBA	
80	dBA	

73 dBA









Drawings based on standard open power 480 volt standby generator. Lengths may vary with other voltages. Subject to change without notice. Sound data as measured at 23 feet (7 meters) in accordance with ISO 8528-10 at standby rating.

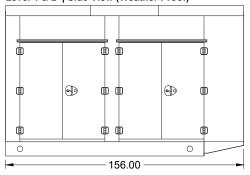
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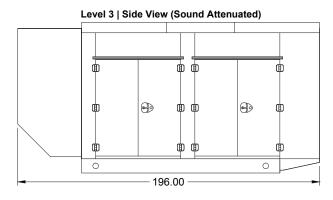
### 350 kWe / 330 kWe

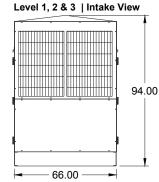


### **Enclosures**

Level 1 & 2 | Side View (Weather Proof)







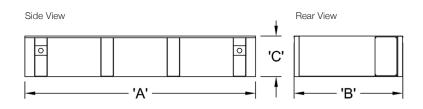
All enclosures are 150 MPH Wind Rated.

Level 2 & 3 enclosures include sound attenuation foam.

Level 3 enclosure includes frontal sound & exhaust hood.

\*Enclosure height does not include exhaust stack.

### Double Wall UL 142 Listed Fuel Tanks



	24 Hour 710 Gallon	48 Hour 1420 Gallon	72 Hour 2130 Gallon
Α	120.00	192.00	276.00
В	66.00	66.00	66.00
С	32.00	36.00	36.00

All specification sheet dimensions are represented in inches.

All enclosures and fuel tanks are based on the standard standby unit configuration. Any deviation can change dimensions.

Materials and specifications subject to change without notice.



American Made

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