

1. Specification

1.1 Specifications

Item	unit	PDSK1200S-4C1
●Weight · Mass		
Overall length with drawbar folded up	mm	5,600
Overall length bonnet only	mm	5,250
Overall width	mm	2,110
Overall height	mm	2,500
Tire		7.00-15 12PR(I) (Air pressure 825kPa)
Turning radius	mm	8,500
Net dry mass	kg	7,800
Operating mass	kg	8,800
●Compressor		
Free air delivery	m ³ /min	34.0
Working pressure	MPa	2.45
Pressure of pressure control valve	MPa	1.37
Burst pressure of safety valve	MPa	2.94
Ambient conditions: temperature	°C	-15 to +40
Ambient conditions: altitude	m	less than 2,000
●Engine		
Type		CAT C15
Rated output	kW	403
Fuel consumption	g/kW·h	223.7
Rated RPM	min ⁻¹	1,800
RPM at unload conditions	min ⁻¹	1,400
Net dry mass	kg	1,469
●Lubricating oils		
Engine oil capacity (high level)	L	55
Compressor oil capacity (including receiver tank and oil cooler etc.)	L	190
Compressor oil		Ambient temperature 5°C to 40°C : MOBIL ; RARUS 425 -15°C to 40°C : MOBIL ; RARUS SHC 1025
Coolant capacity	L	55
Fuel tank capacity	L	874
●Fuel consumption ratio		
At no load (for reference only)	L/Hr	48.0
At 50% load (for reference only)	L/Hr	67.0
At 70% load (for reference only)	L/Hr	80.0
At full load (for reference only)	L/Hr	95.0

1. Specification

1.2 Set Value

Item	unit	PDSK1200S-4C1	
●Emergency stop devices			
Actuating temperature of discharge air temperature switch	°C	more than 130	
Actuating temperature of service air temperature switch	°C	more than 130	
Actuating temperature of water temperature switch	°C	more than 105	
Actuating pressure of oil pressure switch	MPa	Engine controller (ECM) mapping	
Engine speed down	min ⁻¹	less than 450	
Remaining fuel level drop		Quantity of residual oil about 70L (Less than approx. 8% of fuel tank capacity)	
Engine excessive RPM	min ⁻¹	more than 2500	
Rise of engine intake air temperature	°C	more than 79	
Fuel temperature rise	°C	more than 91	
●Warning devices			
Battery failure		When not charged	
Actuating pressure of air filter indicator	kPa	6.23	
Actuating pressure of compressor oil filter indicator	MPa	0.12	
Rise of engine intake air temperature	°C	75	
Fuel temperature rise	°C	80	
Fuel pressure rise	MPa	Engine controller (ECM) mapping	
Limit of fuel pressure filter rises		Engine controller (ECM) mapping	
Abnormal engine oil pressure signal		Engine oil pressure sensor trouble or disconnection of sensor wiring	
Abnormal coolant temperature signal		Coolant temperature sensor trouble or disconnection of sensor wiring	
●Set pressure			
Pressure control valve	MPa	1.37	
Actuating pressure of safety valve	MPa	2.94	
Unload starting pressure	MPa	2.45	
●Engine RPM			
Rated RPM	min ⁻¹	1,800	
RPM at unload	min ⁻¹	1,400	
●Indications of gauges or instruments during operation			
Discharge pressure gauge (at full load)	MPa	1.40-2.45	
Discharge pressure gauge (at no load)	MPa	2.55-2.75	
Discharge air temperature gauge	°C	95-120	
Engine coolant temperature gauge	°C	75-95	
●Engine coolant temperature adjuster			
Thermostat	Temperature for start of release	°C	87
	Full open temperature	°C	98
	Valve lift	mm	9.5