

## Rating definition charts | Industrial diesel engines - Constant speed

Rating definitions for the SB, SA, SH and SR (except S16R2-PTAW-E & S16R2-PTAW2-E) engine series are as per the table below:

Rating	Description	Overload operation	Ave. load factor per 24hrs <sup>1</sup>	Ave. load factor per year <sup>1</sup>	Max. operating hrs per year <sup>1</sup>
Standby	Emergency Standby Power (ESP) (ISO 8528):  For supplying emergency power to a variable electrical load in the case of a utility or commercial power failure.	N/A	80%	70%	500hrs
Prime	Limited-Time Running Power (LTP) (ISO 8528):  For supplying regular short period power to an electrical load for up to 500hrs per year.	10%	100%  (Overload operation (>100%) is limited to 1hr per 12hrs of operation)	100%	500hrs
	Prime Power (PRP) (ISO 8528):  For supplying power to a variable electrical load over an unlimited operating period.	10%	80%  (Overload operation (>100%) is limited to 1hr per 12hrs of operation; operation above 90% load is limited to 3hrs per 24hrs of operation)	70%	Unlimited
DCCP <sup>2</sup>	Data Center Continuous Power (DCCP):  For generators in Data Centre applications.	10%	100%  (Overload operation (>100%) is limited to 1hr per 12hrs of operation)	100%	Unlimited
Continuous C <sup>3</sup>	Continuous Power (COP) (ISO 8528):  For the supply of continuous power without limitation of average load or operating hours.	N/A	100%	100%	Unlimited
Continuous D <sup>3</sup>	Continuous Power (COP) (ISO 8528):  <b>For the supply of continuous power without limitation of average load or operating hours and where an extended maintenance interval is required.</b>	N/A	100%	100%	Unlimited

<sup>1</sup> Atmospheric condition as per ISO 15550:2002(JIS B 8003:2005) (Barometric pressure: 100kPa, ambient temperature: 298K, relative humidity: 30%).

Calculations and conditions are consistent with the requirements of ISO 8528:2018

<sup>2</sup> Data Centre Continuous Power (DCCP) rating meets with the requirements of the Uptime Institute's Tier III and IV standards with the generator sets being considered as the primary power source with no runtime limitations. The ratings are based on connection to a reliable utility power source as the economic alternative.

<sup>3</sup> For details of the Continuous C & D ratings and information on availability of these models, please contact us.

Rating definitions for the S16R2-PTAW-E & S16R2-PTAW2-E engines are as per the table below:

Rating	Description	Overload operation	Ave. load factor per 24hrs <sup>1</sup>	Ave. load factor per year <sup>1</sup>	Max. operating hrs per year <sup>1</sup>
Standby	Emergency Standby Power (ESP) (ISO 8528): For supplying emergency power to a variable electrical load in the case of a utility or commercial power failure.	N/A	80%	70%	500hrs
Prime	Limited-Time Running Power (LTP) (ISO 8528): For supplying regular short period power to an electrical load for up to 500hrs per year.	10%	100% (Overload operation (>100%) is limited to 1hr per 12hrs of operation)	100%	500hrs
	Prime Power (PRP) (ISO 8528): For supplying power to a variable electrical load over an unlimited operating period.	10%	90% (Overload operation (>100%) is limited 12hrs of operation per year; operation above 90% load is limited to 1hrs per 12hrs of operation)	70%	Unlimited
DCCP <sup>2</sup>	Data Center Continuous Power (DCCP): For generators in Data Centre applications	10%	100% (Overload operation (>100%) is limited to 1hr per 12hrs of operation)	100%	Unlimited

<sup>1</sup> Atmospheric condition as per ISO 15550:2002(JIS B 8003:2005) (Barometric pressure: 100kPa, ambient temperature: 298K, relative humidity: 30%).  
Calculations and conditions are consistent with the requirements of ISO 8528:2018

<sup>2</sup> Data Centre Continuous Power (DCCP) rating meets with the requirements of the Uptime Institute's Tier III and IV standards with the generator sets being considered as the primary power source with no runtime limitations. The ratings are based on connection to a reliable utility power source as the economic alternative.