



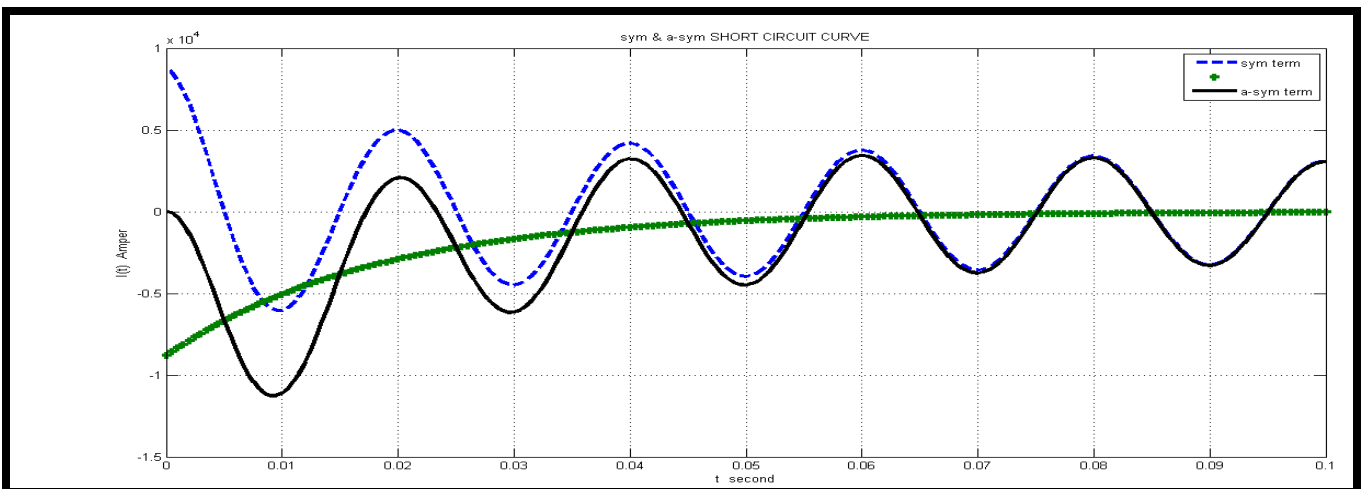
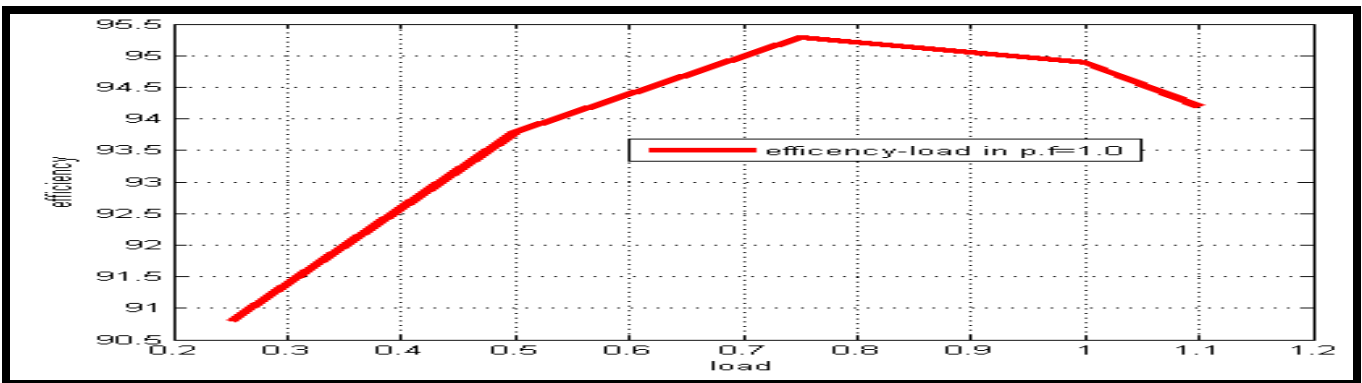
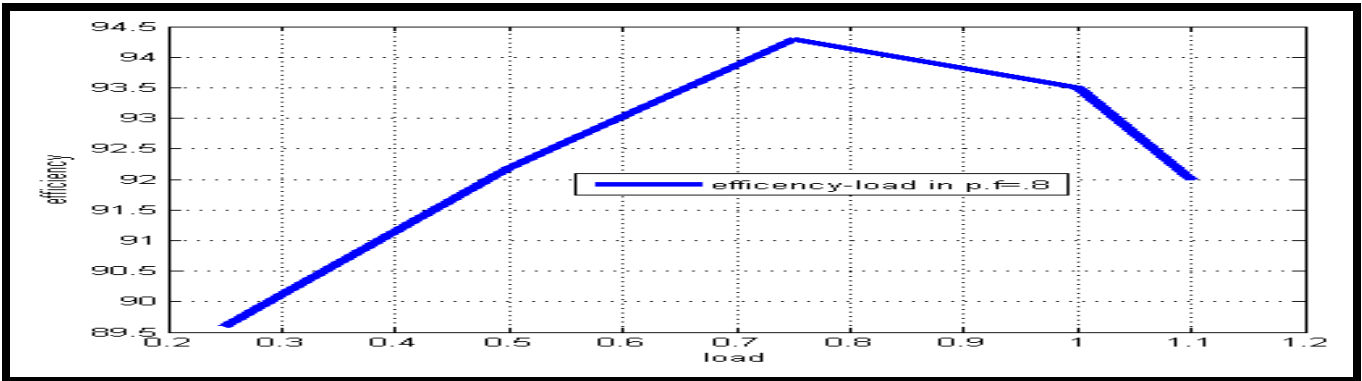
Technical Datasheet for Mahniroo Alternators DSG62 m1-4

Generator data

Generator :	DSG62 m1-4	poles:	4	Standard:	IEC60034
Rated power :	600 KVA	Rated Current:	870 A	Rated Voltage:	400V
Active Power :	480 Kwatt	Reactive Power:	360 kvar	Power Factor:	0.8
Speed:	1500 rpm	Freq:	50 HZ	Mech Power:	513 kwatt
Voltage range/ferquency range :		Zone A according IEC 60034-1 (dU=+/-5%,df=+/-2%)			
Insulation class:		stator: Class H	Rotor: Class H	Temperature Rise: H	
Winding Pitch:		2/3			
Ambient Temperature :		40°C		Site altitude :	1000 m
Enviroment:		Standard Enviroment			
Cooling:	1C 01-Open-circuit ventilation		Cooling Air Vol:	98 m ³ /min	Enclosure: IP23
Weight:	1800	Momment of Inertia:	11.27 Kg/m ²		
Temperature Air inlet	40°C		Cooling Water Quantity:	n/a	
Losses(enviroment):	33 Kwatt	Losses(cooling):	n/a		
Wires:	4 terminals, starpoint connected in terminal box			Single	yes
Voltage regulator:	Cosimat C /MN		Operation mode	Parallel	yes

Electrical Data (aac,IEC)

Efficiencies	110%	100%	75%	50%	25%
P.F 0.8	92	93.5	94.3	92.2	89.6
P.F 1.0	94.2	94.9	95.3	93.8	90.8
Reactances (p.u.) and time constants (second)					
$X_d^{\text{saturated}}$	2.6	$X_q^{\text{saturated}}$	1.2	$T_{d0'}$	2.075 s
$X_{d'}^{\text{saturated}}$	0.223	$X_{q''}^{\text{saturated}}$	1.2	$T_{d'}$	0.18 s
$X_{d''}^{\text{saturated}}$	0.128	$X_0^{\text{saturated}}$	0.055	$T_{d''}$	0.009 s
$X_2^{\text{saturated}}$	0.142			T_a	0.018 s
$X_{1s}^{\text{saturated}}$	n.a.			$T_{q'}$	0.18 s





General Arrangement for Mahniroo
Alternators DSG62 M1-4

