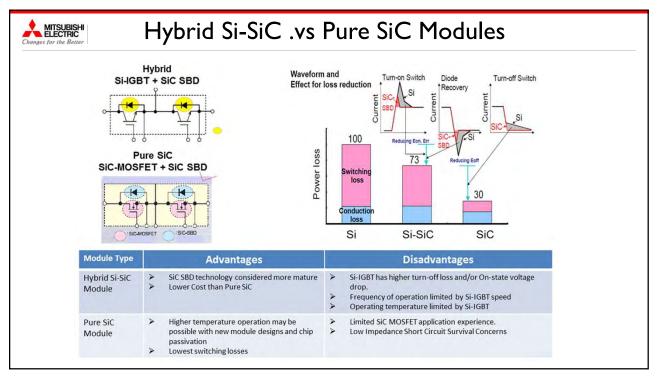
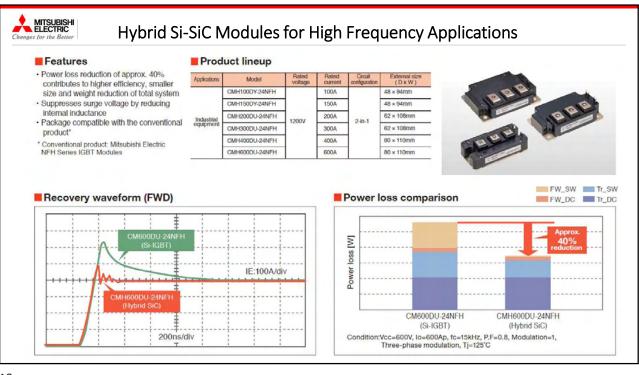
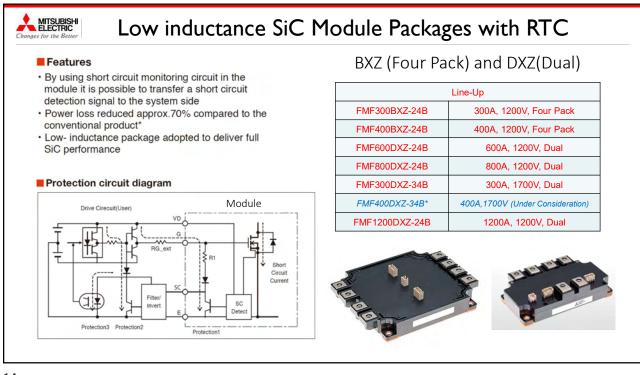
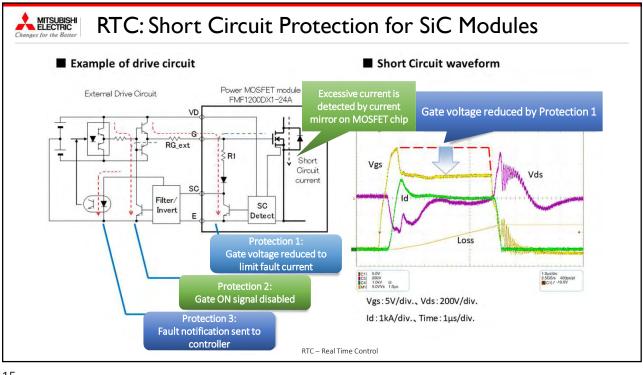


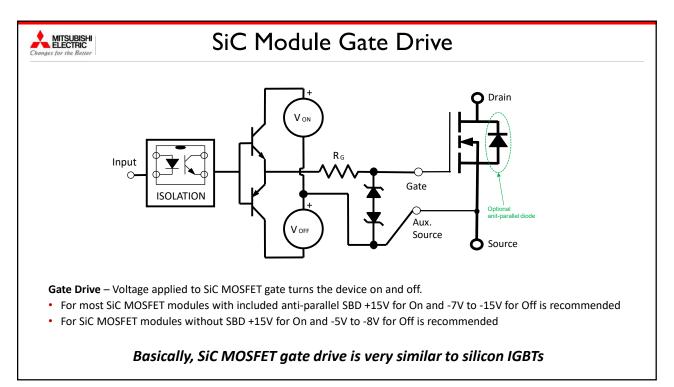
Changes for the Better	SiC MO	DSFET SuperM	ini DIPIPN	1 TM	
- Reduced	l recovery curr	DN voltage and low Forward ve ent and EMI noise by applying th Silicon SuperMini versions			
Line-up:	<u>Circuit Configuration:</u>		Features:		
Part Number	Rating				
PSF15S92F6	15A/600V	HVIC	Circuit	Зф Inverter	
PSF25S92F6	25A/600V	Po	Protection	SC, UV, Fo	
Applications:			Temperature Function	Select VOT or OT	
Highest Efficie	ency Inverters		Bootstrap Diode	Included	
Flagship Designs with Li	Models imited Cooling		Input Logic	5V / 3.3V Active High	
		┍┥╪╗╶┎┤╘┑╬╴┎┤╘┑╬	N-side Emitter	Open	
			Isolation Voltage	1500Vrms	
		LVIC	UL1557	Approved	
Package:	(- - - - - - - - - - - - - - - - - - -	Body diode of SiC MOSFET is used as a freewheeling diode.	SC: Short Circuit UV: Under Voltage of Fo: Fault Output noti OT: Over-Temperatur VOT: Temperature out	fication e Protection	

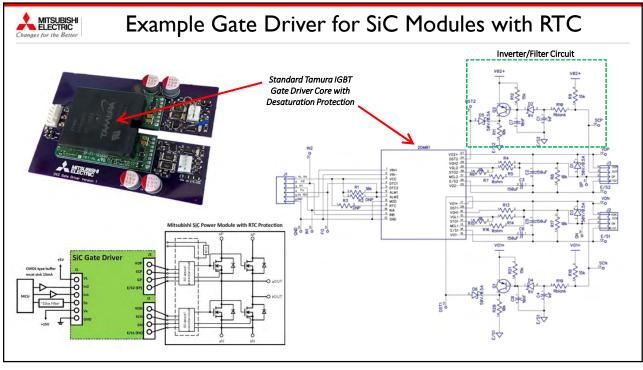


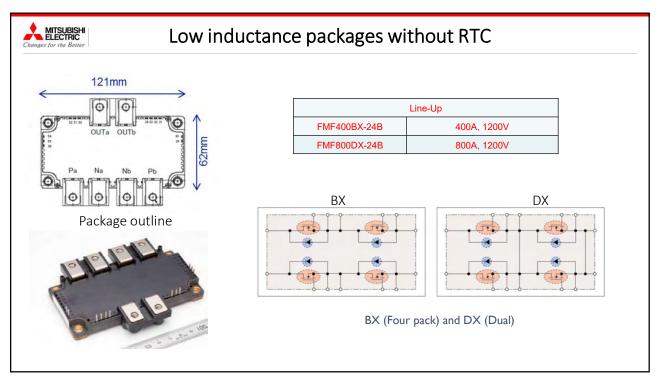


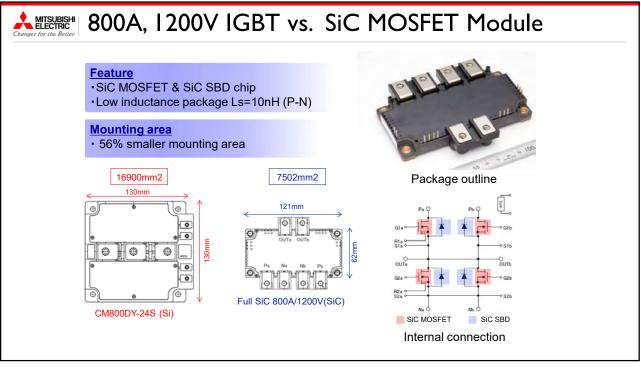


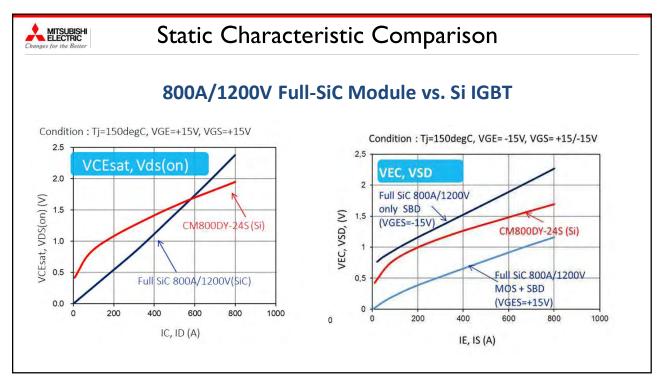


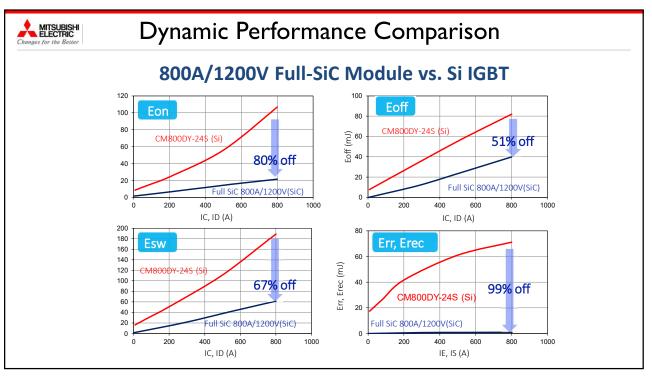


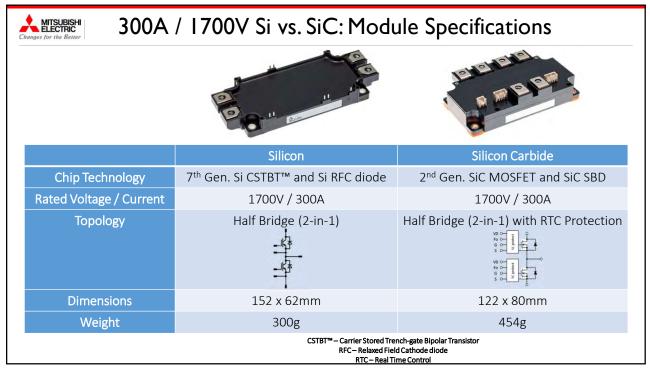




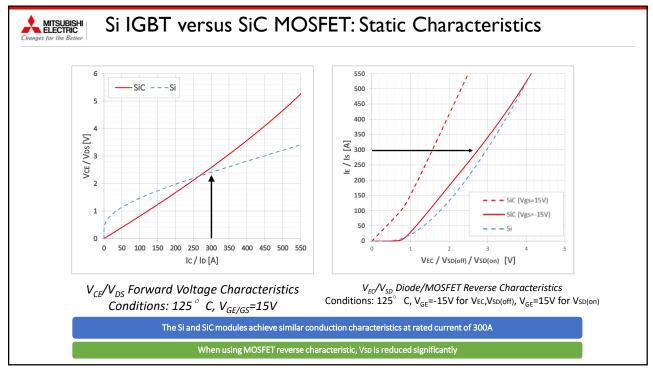


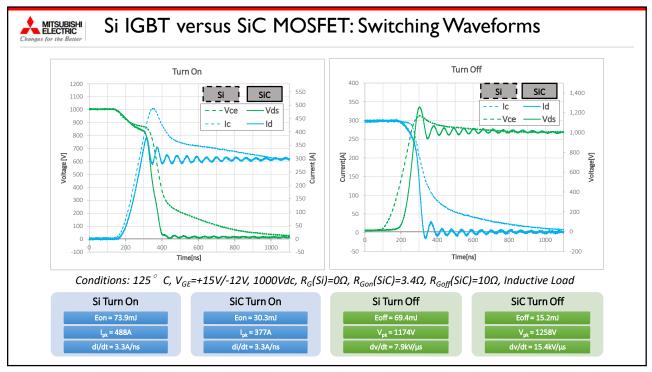


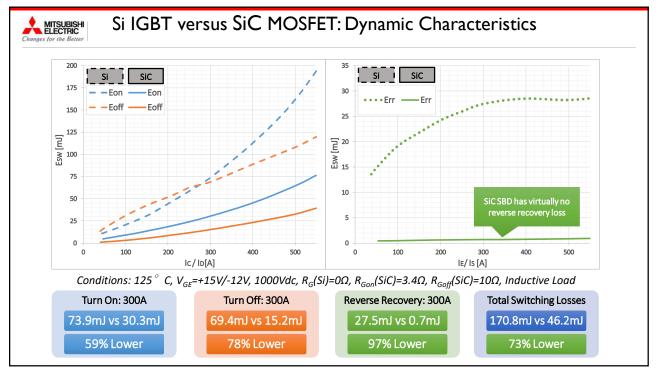


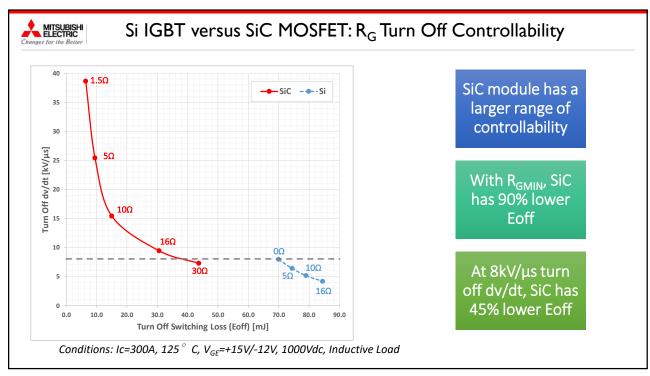


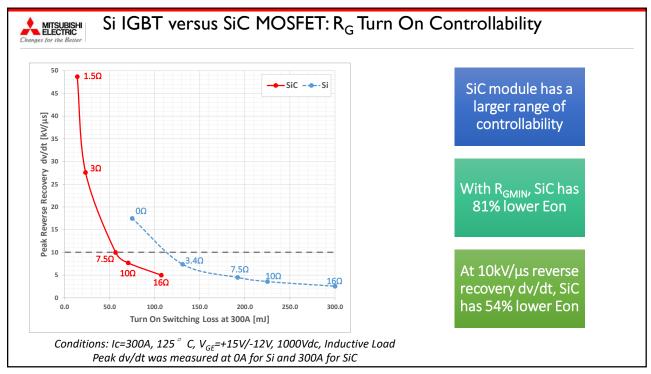
Si vs. SiC 300A, 1700V Module Characteristics					
	the parts	P P P			
2	1 13 1 1	E E E			
9	6				
	Silicon	Silicon Carbide			
T _{vjop (continuous)}	150°C	150°C			
Nominal Gate Drive Voltage	+15V/-15V	+15V/-15V			
R _{th(j-c)} per IGBT / MOSFET	99 K/kW	114 K/kW			
R _{th(j-c)} per FWD / SBD	149 K/kW	123 K/kW			
V _{isol}	4000V _{RMS}	4000V _{RMS}			
Gate Charge (Q _G)	2.35μC	1.8µC			
Short Circuit SOA	8µs	3µs via RTC Protection			
	RTC – Real Time Control				

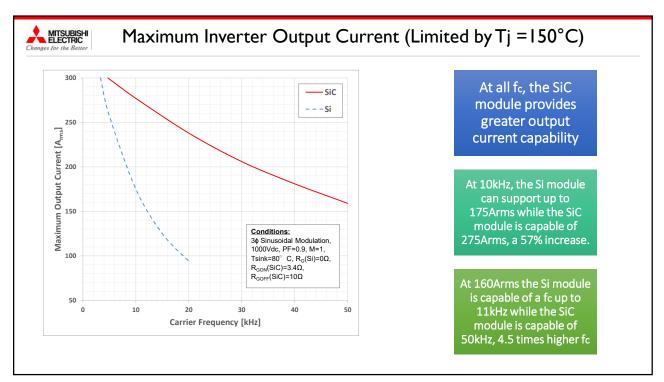


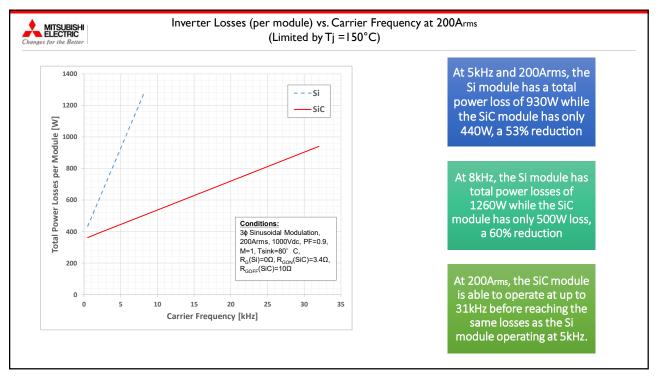


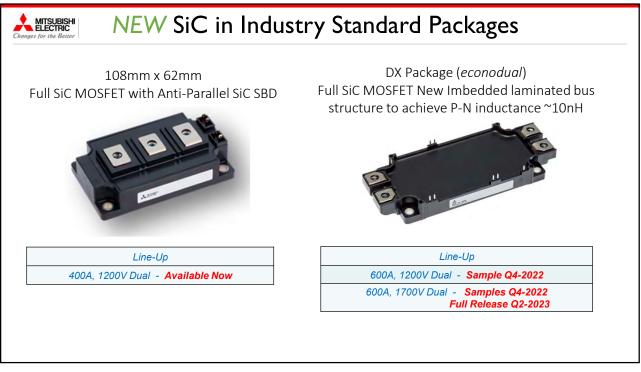


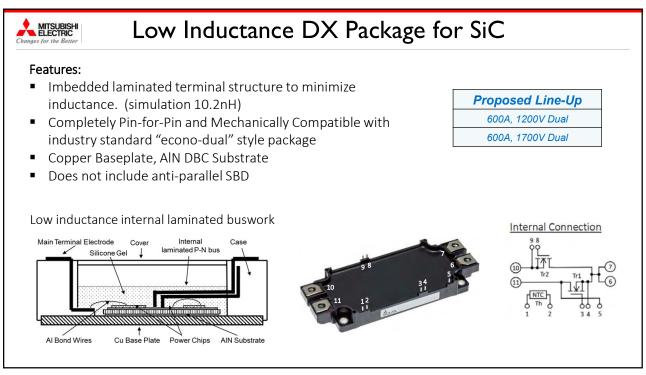


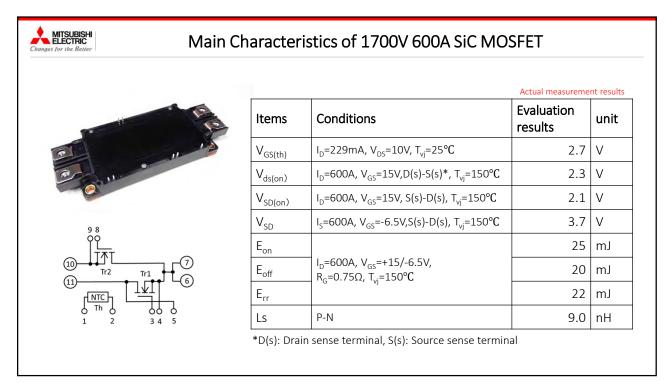




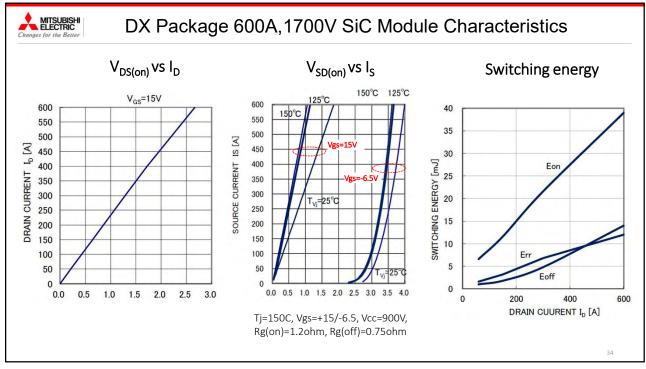






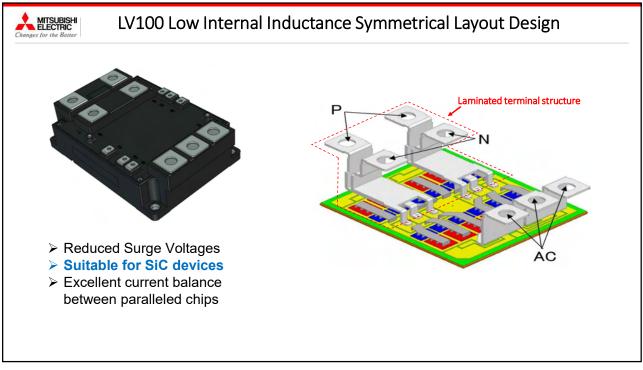


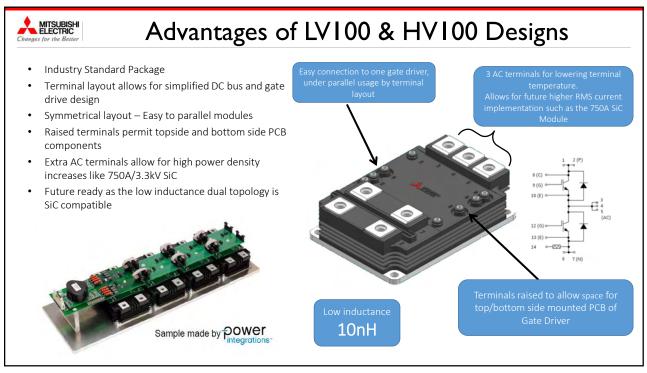


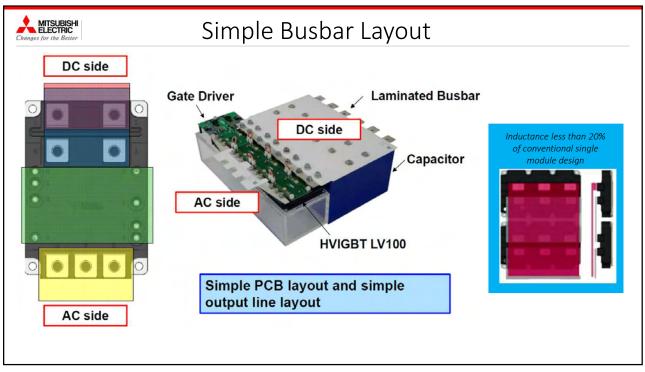


Changes for the Better	High Power	SiC LV-100 Pa	ckage
	Industry Standard I Traction, Industrial		
	0	LV100 Pac	kage SiC Line-Up
		CMH1200DC-34X	1200A, 1700V Hybrid
00	Juliane D	CMH600DC-66X	600A, 3300V Hybrid
		FMF185DC-66A	185A, 3300V Full SiC
		FMF375DC-66A	375A, 3300V Full SiC
		FMF750DC-66A	750A, 3300V Full SiC









	Part Number	Voltage	Current	Package
Si module		-		
	CM1200DW-24T	1200V	1200A	1 Store
LV100	CM800DW-34T	1700V	800A	
Industrial Viso=4KV	CM800DW-34TA	1700V	800A IGBT, 1200A FWDi	00
VISU-4/(V	CM1200DW-34T	1700V	1200A	
	CM1200DW-40T	2000V	1200A (Under Development)	
	CM1000DA-34X	1700V	1000A	Jelele .
LV100 Viso=6KV	CM1200DA-34X	1700V	1200A	1 1 2
(Traction Use)	CM450DA-66X	3300V	450A	
	CM600DA-66X	3300V	600A	
HV100	CM450DE-66X	3300V	450A	10 B
Viso=10.2KV	CM600DE-66X	3300V	600A	1-1-1 L
(Traction & Medium Voltage Drives)	GM450DE-90X	4500V	450A (Under Development)	
vollage Drives)	GM300DE-130X	6500V	300A (Under Development)	
SiC module				
SiC LV100 Viso=6KV	CMH1200DA-34X	1700V	1200A (Hybrid-Si IGBT+SiC Schottky)	
	CMH600DA-66X	3300V	600A (Hybrid-Si IGBT+SiC Schottky)	Aslan .
	FMF185DC-66A	3300V	185A	10 0
	FMF375DC-66A	3300V	375A	a
	FMF750DC-66A	3300V	750A	

